

IES INDOOR REPORT
PHOTOMETRIC FILENAME : RSL2-BK-35K-B-N-12-BK.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] 3298
 [ECN] 3314
 [TESTLAB] Tempo LLC
 [ISSUE DATE] 12/6/2017 12:53:53 PM
 [MANUFAC] Tempo LLC
 [LUMCAT] RSL2-BK-35K-B-N-12-BK
 [LUMINAIRE] Black aluminum housing with baffle and no lens, no graphic black plate
 [LAMP] Three (3) white LEDs (3500K)
 [ELECTRICALS] 12.08 VAC, 0.04 A, 0.9309 PF, 23% ATHD

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	21
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	44
Total Luminaire Watts	0.48
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	2.10
Spacing Criterion (90-270)	1.04
Spacing Criterion (Diagonal)	1.34
Basic Luminous Shape	Rectangular w/Sides
Luminous Length (0-180)	0.11 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.02 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6769	5780	157
55	7720	5869	140
65	6090	4346	105
75	389	640	55
85	0	27	0

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CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
0.0	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02
2.5	10.55	10.55	10.55	10.55	10.52	10.50	10.48	10.46	10.45	10.40
5.0	11.05	11.05	11.05	11.02	10.99	10.96	10.92	10.87	10.82	10.75
7.5	11.52	11.52	11.49	11.47	11.43	11.38	11.33	11.26	11.18	11.09
10.0	11.97	11.97	11.94	11.90	11.84	11.78	11.71	11.62	11.52	11.41
12.5	12.38	12.38	12.34	12.30	12.24	12.16	12.07	11.97	11.85	11.72
15.0	12.76	12.75	12.71	12.66	12.59	12.51	12.42	12.29	12.17	11.98
17.5	13.10	13.09	13.05	12.99	12.93	12.83	12.73	12.58	12.39	12.18
20.0	13.42	13.41	13.36	13.30	13.23	13.13	13.00	12.80	12.59	12.36
22.5	13.70	13.69	13.65	13.58	13.51	13.41	13.22	13.01	12.78	12.52
25.0	13.97	13.95	13.91	13.85	13.76	13.61	13.42	13.19	12.95	12.69
27.5	14.22	14.20	14.15	14.09	14.00	13.81	13.60	13.36	13.10	12.81
30.0	14.42	14.40	14.36	14.30	14.17	13.98	13.76	13.51	13.23	12.89
32.5	14.63	14.60	14.55	14.49	14.33	14.13	13.91	13.65	13.32	12.96
35.0	14.78	14.75	14.71	14.64	14.46	14.25	14.03	13.73	13.39	13.02
37.5	14.90	14.87	14.83	14.73	14.56	14.36	14.10	13.79	13.44	13.06
40.0	15.00	14.96	14.92	14.80	14.63	14.43	14.14	13.82	13.47	13.05
42.5	15.05	15.01	14.97	14.84	14.66	14.45	14.16	13.84	13.48	12.98
45.0	15.07	15.03	15.00	14.84	14.68	14.43	14.15	13.83	13.42	12.93
47.5	15.04	15.01	14.97	14.81	14.64	14.38	14.10	13.76	13.35	12.89
50.0	14.98	14.95	14.89	14.74	14.56	14.31	14.03	13.66	13.26	12.77
52.5	14.92	14.89	14.82	14.67	14.46	14.21	13.89	13.53	13.15	11.94
55.0	14.86	14.77	14.66	14.56	14.32	14.06	13.76	13.40	12.74	11.37
57.5	14.25	14.07	14.00	13.98	13.90	13.72	13.52	13.12	12.47	11.00
60.0	13.24	13.02	12.95	12.93	13.00	12.97	12.99	12.69	12.23	10.35
62.5	11.88	11.50	11.45	11.46	11.56	11.86	11.82	11.96	11.42	8.60
65.0	9.53	8.96	9.05	9.28	9.51	9.92	10.25	10.62	9.62	6.86
67.5	6.54	5.90	6.03	6.39	6.85	7.33	8.17	8.23	7.76	5.16
70.0	3.80	3.30	3.48	3.71	4.10	4.56	5.26	5.60	5.78	3.93
72.5	2.03	1.65	1.61	1.73	1.95	2.34	2.70	3.20	3.71	2.48
75.0	0.45	0.31	0.36	0.48	0.63	0.85	1.08	1.67	1.73	0.75
77.5	0.02	0.03	0.04	0.05	0.15	0.21	0.44	0.49	0.32	0.27
80.0	0.00	0.02	0.02	0.03	0.03	0.07	0.04	0.12	0.18	0.17
82.5	0.00	0.00	0.00	0.02	0.02	0.02	0.03	0.05	0.06	0.05
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.02	0.02
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Angles **Horizontal Angles**

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>	<u>95</u>
0.0	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02
2.5	10.36	10.34	10.28	10.24	10.20	10.16	10.12	10.06	10.02	9.97
5.0	10.69	10.61	10.54	10.46	10.37	10.28	10.19	10.12	10.01	9.91
7.5	11.00	10.89	10.78	10.67	10.54	10.43	10.28	10.14	10.00	9.85
10.0	11.31	11.16	11.02	10.86	10.72	10.53	10.36	10.17	9.99	9.80
12.5	11.57	11.40	11.20	11.00	10.78	10.56	10.34	10.10	9.87	9.65
15.0	11.77	11.56	11.34	11.09	10.83	10.57	10.31	10.03	9.76	9.47
17.5	11.94	11.71	11.45	11.17	10.89	10.59	10.27	9.95	9.64	9.30
20.0	12.11	11.83	11.55	11.24	10.92	10.59	10.25	9.88	9.52	9.13
22.5	12.25	11.96	11.65	11.28	10.87	10.41	9.90	9.37	8.73	8.12
25.0	12.38	12.05	11.67	11.25	10.77	10.20	9.56	8.82	7.95	7.03
27.5	12.47	12.09	11.70	11.25	10.69	10.04	9.26	8.32	7.16	5.91
30.0	12.52	12.12	11.71	11.25	10.65	9.94	9.00	7.84	6.37	4.74

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32.5	12.57	12.17	11.71	11.24	9.98	8.64	7.32	6.14	4.87	3.57
35.0	12.61	12.18	11.22	9.89	8.31	6.75	5.37	4.34	3.36	2.44
37.5	12.58	11.73	10.48	8.81	6.77	4.88	3.38	2.49	1.86	1.37
40.0	12.38	11.37	9.94	7.88	5.37	3.05	1.42	0.62	0.35	0.33
42.5	12.25	11.16	9.56	7.20	4.31	2.17	0.96	0.48	0.33	0.28
45.0	12.21	11.07	8.79	6.07	3.57	1.77	0.81	0.43	0.32	0.27
47.5	12.20	9.74	7.03	4.57	2.59	1.26	0.62	0.37	0.30	0.25
50.0	10.87	8.04	5.17	2.83	1.37	0.61	0.36	0.30	0.28	0.25
52.5	9.77	6.48	3.26	0.89	0.39	0.32	0.31	0.29	0.26	0.22
55.0	8.94	5.13	2.05	0.70	0.39	0.31	0.30	0.27	0.24	0.20
57.5	8.27	4.43	1.79	0.66	0.37	0.31	0.29	0.26	0.22	0.17
60.0	6.76	3.39	1.31	0.53	0.34	0.30	0.28	0.25	0.20	0.14
62.5	5.00	2.03	0.62	0.31	0.31	0.29	0.26	0.21	0.17	0.12
65.0	3.11	0.60	0.30	0.30	0.30	0.27	0.23	0.18	0.14	0.09
67.5	2.12	0.60	0.28	0.28	0.28	0.26	0.21	0.15	0.11	0.07
70.0	1.62	0.50	0.26	0.27	0.27	0.25	0.19	0.11	0.07	0.04
72.5	0.89	0.29	0.24	0.25	0.25	0.21	0.16	0.10	0.06	0.04
75.0	0.16	0.16	0.19	0.21	0.21	0.17	0.13	0.08	0.05	0.03
77.5	0.12	0.12	0.15	0.17	0.18	0.14	0.09	0.05	0.03	0.02
80.0	0.08	0.08	0.10	0.13	0.14	0.10	0.06	0.03	0.02	0.00
82.5	0.04	0.05	0.07	0.10	0.11	0.08	0.05	0.03	0.00	0.00
85.0	0.03	0.04	0.05	0.07	0.08	0.06	0.04	0.03	0.00	0.00
87.5	0.02	0.03	0.03	0.04	0.04	0.03	0.03	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	100	105	110	115	120	125	130	135	140	145
0.0	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02	10.02
2.5	9.92	9.87	9.83	9.79	9.74	9.70	9.66	9.63	9.59	9.58
5.0	9.82	9.72	9.63	9.54	9.46	9.38	9.29	9.23	9.16	9.12
7.5	9.71	9.57	9.45	9.30	9.17	9.04	8.92	8.81	8.71	8.62
10.0	9.61	9.45	9.23	9.05	8.88	8.70	8.54	8.40	8.24	8.11
12.5	9.40	9.17	8.95	8.74	8.53	8.34	8.15	7.94	7.77	7.56
15.0	9.21	8.92	8.67	8.39	8.12	7.90	7.67	7.42	7.09	6.72
17.5	8.97	8.65	8.33	8.02	7.71	7.40	7.00	6.52	5.75	3.91
20.0	8.77	8.41	8.02	7.65	7.26	6.75	5.98	4.00	1.52	0.98
22.5	7.65	7.36	7.18	7.06	6.71	5.74	2.87	1.07	0.59	0.15
25.0	6.38	6.05	5.94	5.84	5.36	2.81	0.94	0.39	0.08	0.03
27.5	5.12	4.77	4.80	4.68	3.29	0.92	0.37	0.08	0.02	0.02
30.0	3.79	3.56	3.71	3.38	1.25	0.38	0.08	0.02	0.02	0.00
32.5	2.82	2.67	2.80	1.80	0.48	0.11	0.02	0.02	0.00	0.00
35.0	1.97	1.95	2.03	0.92	0.17	0.03	0.02	0.00	0.00	0.00
37.5	1.17	1.23	1.23	0.35	0.07	0.02	0.00	0.00	0.00	0.00
40.0	0.38	0.50	0.48	0.14	0.03	0.00	0.00	0.00	0.00	0.00
42.5	0.25	0.21	0.10	0.05	0.02	0.00	0.00	0.00	0.00	0.00
45.0	0.23	0.18	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.22	0.14	0.05	0.03	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.21	0.12	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.00
52.5	0.18	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55.0	0.15	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.13	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.10	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.08	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.0	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.04	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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70.0	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Vert. Horizontal Angles
Angles

	<u>150</u>	<u>155</u>	<u>160</u>	<u>165</u>	<u>170</u>	<u>175</u>	<u>180</u>
0.0	10.02	10.02	10.02	10.02	10.02	10.02	10.02
2.5	9.54	9.52	9.50	9.49	9.48	9.47	9.47
5.0	9.04	9.01	8.96	8.94	8.91	8.91	8.90
7.5	8.53	8.46	8.42	8.36	8.33	8.31	8.30
10.0	8.00	7.91	7.82	7.75	7.70	7.67	7.66
12.5	7.35	7.16	6.98	6.87	6.69	6.62	6.59
15.0	6.28	5.72	4.61	3.36	2.89	2.70	2.73
17.5	1.93	1.16	0.68	0.39	0.22	0.13	0.07
20.0	0.52	0.17	0.07	0.05	0.04	0.03	0.03
22.5	0.04	0.03	0.03	0.02	0.00	0.00	0.00
25.0	0.02	0.02	0.00	0.00	0.00	0.00	0.00
27.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
52.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
55.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
57.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
62.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
65.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
67.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
72.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
75.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
77.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
82.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
87.5	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	3.50	N.A.	16.50
0-30	6.90	N.A.	32.50
0-40	10.68	N.A.	50.20
0-60	18.26	N.A.	85.90
0-80	21.24	N.A.	99.90
0-90	21.26	N.A.	100.00
10-90	20.31	N.A.	95.50
20-40	7.18	N.A.	33.80
20-50	11.04	N.A.	51.90
40-70	10.12	N.A.	47.60
60-80	2.98	N.A.	14.00
70-80	0.44	N.A.	2.10
80-90	0.02	N.A.	0.10
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	21.26	N.A.	100.00

Total Luminaire Efficiency = N.A.%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.95
10-20	2.55
20-30	3.40
30-40	3.78
40-50	3.86
50-60	3.72
60-70	2.54
70-80	0.44
80-90	0.02
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

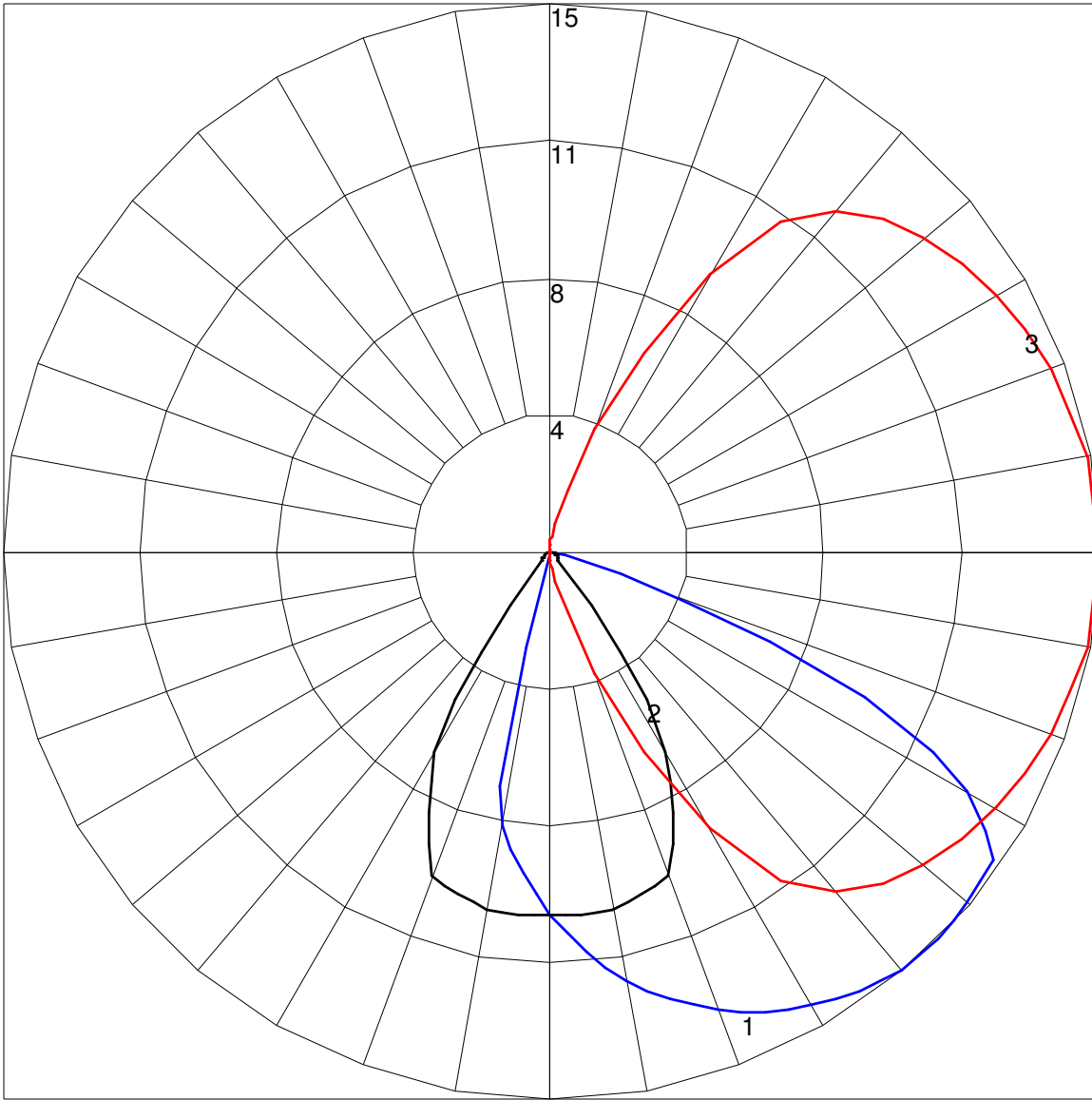
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0	
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	121	121	121	121	121	118	118	118	118	112	112	112	108	108	108	103	103	103	101
1	112	108	104	101	101	109	105	102	99	101	98	96	97	95	93	94	92	90	88
2	103	95	89	84	84	100	93	88	83	90	85	81	86	82	79	83	80	77	75
3	94	84	77	71	71	92	83	76	70	80	74	69	77	72	68	74	70	66	64
4	86	75	67	60	60	84	74	66	60	71	65	59	69	63	58	67	62	58	56
5	80	67	59	52	52	78	66	58	52	64	57	52	62	56	51	60	55	50	48
6	74	61	52	46	46	72	60	52	46	58	51	45	56	50	45	55	49	45	43
7	68	55	47	41	41	67	55	46	41	53	46	40	52	45	40	50	44	40	38
8	64	51	42	37	37	62	50	42	37	49	42	36	47	41	36	46	40	36	34
9	60	47	39	33	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	30	55	43	35	30	42	35	30	41	34	30	40	34	30	28

POLAR GRAPH



Maximum Candela = 15.07 Located At Horizontal Angle = 0, Vertical Angle = 45
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (90 - 270)
3 - Horizontal Cone Through Vertical Angle (45) (Through Max. Cd.)