

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P295663

Luminaire Tested: **14RLN-LD5-35-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295663
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1901-085-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-UNV-L92765-W2A1-U-6500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383.0 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.01 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

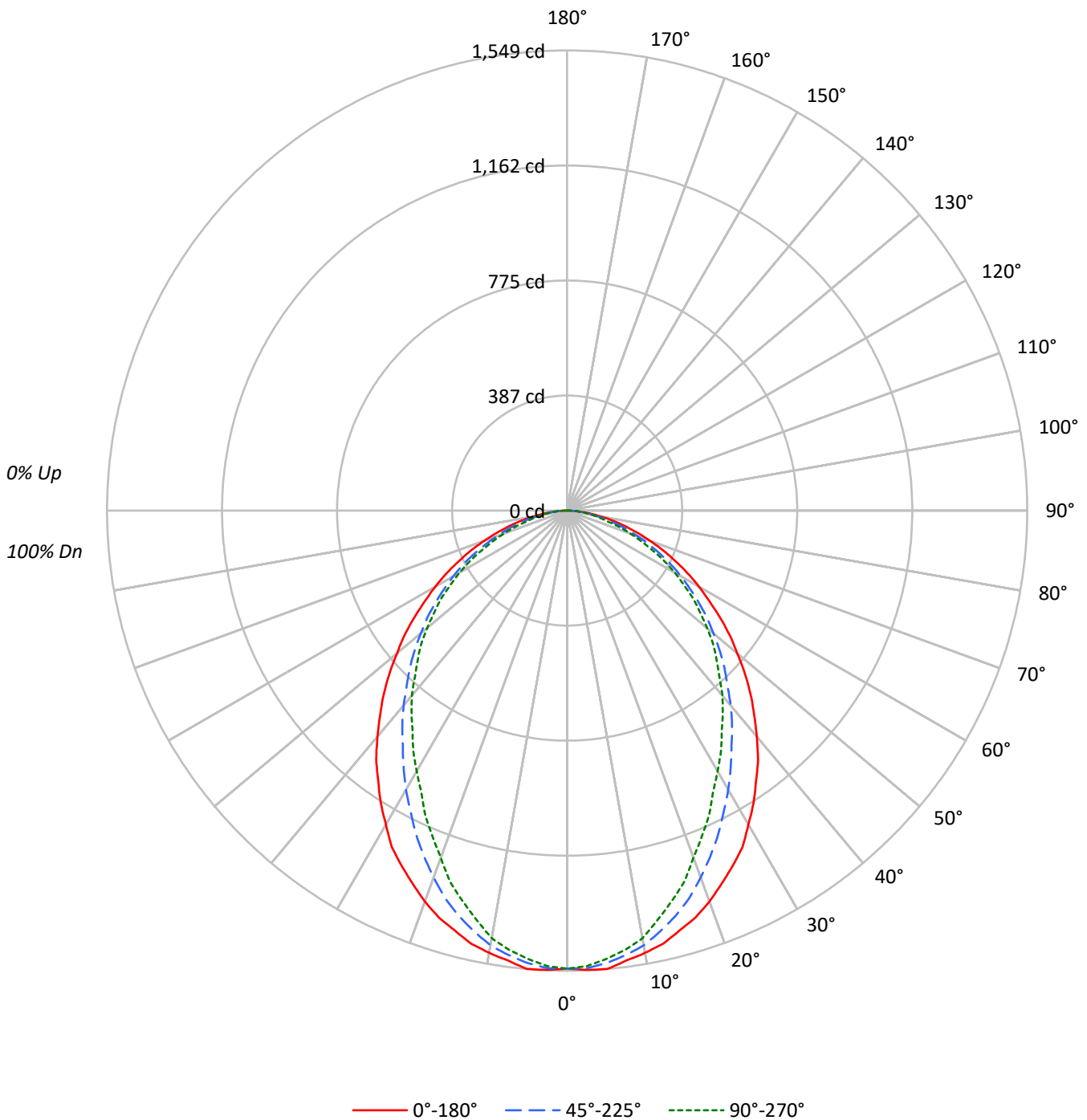
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62					62			
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47					47			
6	72	60	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43	41					41			
7	67	54	46	40	66	53	45	40	52	45	39	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4149	4149	4149
5°	4184	4130	4092
10°	4131	4061	3994
15°	4076	3933	3790
20°	4010	3765	3560
25°	3916	3573	3356
30°	3792	3370	3148
35°	3643	3168	2981
40°	3489	3007	2856
45°	3323	2850	2708
50°	3129	2692	2572
55°	2950	2541	2434
60°	2761	2384	2253
65°	2557	2202	2020
70°	2327	1979	1788
75°	2095	1768	1456
80°	1793	1440	1373
85°	1457	1368	1368



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.4	4.3
10°-20°	396.2	11.7
20°-30°	556.1	16.4
30°-40°	616.8	18.2
40°-50°	592.1	17.5
50°-60°	496.2	14.7
60°-70°	348.3	10.3
70°-80°	181.9	5.4
80°-90°	50.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1096.7	32.4
0°-40°	1713.5	50.6
0°-60°	2801.8	82.8
0°-90°	3383.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3383.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1549	1529	1529	1519	1515	146
15°	1463	1438	1412	1375	1360	413
25°	1319	1272	1203	1145	1130	607
35°	1109	1047	964	917	907	694
45°	873	806	749	720	712	672
55°	629	582	542	524	519	562
65°	402	374	346	324	317	399
75°	202	186	170	150	140	214
85°	47	44	44	44	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.8	1541.8	1541.8	1541.8	1541.8
2.5°	1547.6	1539.0	1541.8	1541.8	1534.7
5°	1549.0	1529.0	1529.0	1519.0	1514.7
7.5°	1527.5	1511.8	1509.0	1496.1	1491.8
10°	1511.8	1496.1	1486.1	1469.0	1461.8
12.5°	1493.3	1469.0	1450.4	1421.8	1410.4
15°	1463.2	1437.5	1411.8	1374.6	1360.4
17.5°	1436.1	1406.1	1367.5	1326.1	1310.3
20°	1400.4	1364.6	1314.6	1257.5	1243.2
22.5°	1358.9	1317.5	1258.9	1197.5	1186.0
25°	1318.9	1271.8	1203.2	1144.6	1130.3
27.5°	1277.5	1220.3	1141.7	1078.9	1064.6
30°	1220.3	1161.7	1084.6	1023.1	1013.1
32.5°	1167.5	1108.9	1024.6	974.5	963.1
35°	1108.9	1047.4	964.5	917.4	907.4
37.5°	1056.0	984.5	911.7	865.9	860.2
40°	993.1	928.8	855.9	821.6	813.1
42.5°	931.7	867.4	798.8	768.8	758.8
45°	873.1	805.9	748.8	720.2	711.6
47.5°	811.6	750.2	695.9	673.0	667.3
50°	747.3	693.0	643.0	621.6	614.4
52.5°	690.2	634.5	593.0	573.0	564.4
55°	628.7	581.6	541.6	524.4	518.7
57.5°	567.3	528.7	490.1	474.4	465.8
60°	513.0	474.4	443.0	424.4	418.7
62.5°	457.3	424.4	394.4	377.2	370.1
65°	401.5	374.4	345.8	324.4	317.2
67.5°	350.1	320.1	297.2	278.6	271.5
70°	295.8	274.4	251.5	234.3	227.2
72.5°	245.8	230.1	210.1	191.5	184.3
75°	201.5	185.8	170.0	150.0	140.0
77.5°	157.2	147.2	131.5	114.3	114.3
80°	115.7	110.0	92.9	90.0	88.6
82.5°	80.0	77.2	67.2	65.7	65.7
85°	47.2	44.3	44.3	44.3	44.3
87.5°	20.0	21.4	22.9	22.9	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)