

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: P295799

Luminaire Tested: **14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36061-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14RLN-LD5-35-RDP-UNV-L92765-W2A1-U-4500K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2740.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.35 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

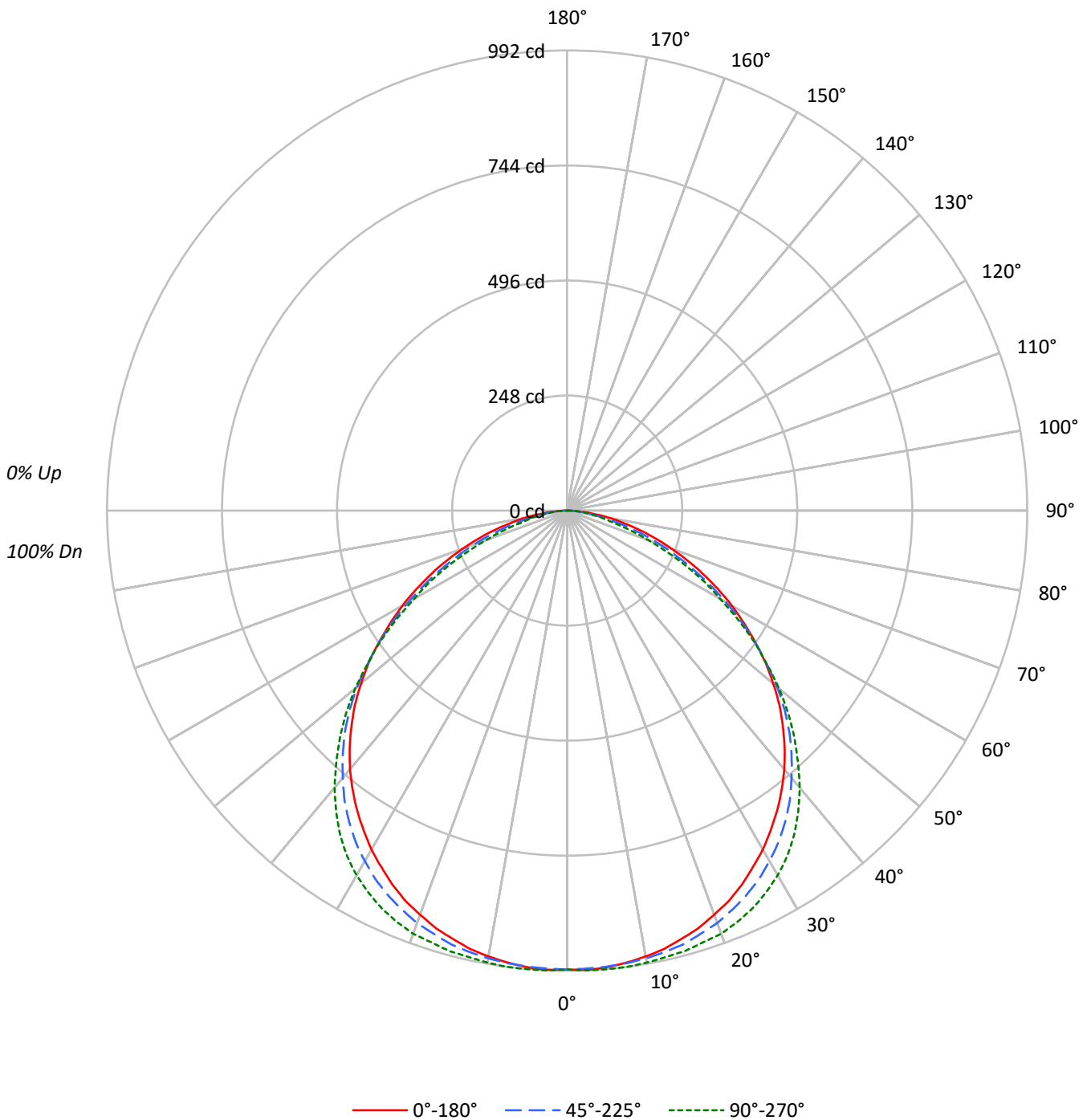
Input Watts (W): 34.224
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2663	2663	2663
5°	2669	2666	2680
10°	2667	2678	2704
15°	2662	2696	2738
20°	2654	2709	2779
25°	2643	2716	2809
30°	2622	2711	2821
35°	2593	2692	2803
40°	2558	2644	2740
45°	2502	2579	2637
50°	2427	2473	2496
55°	2324	2318	2305
60°	2205	2132	2051
65°	2054	1906	1803
70°	1874	1670	1456
75°	1684	1387	1090
80°	1497	1012	948
85°	1176	840	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.4
10°-20°	273.8	10.0
20°-30°	422.5	15.4
30°-40°	512.4	18.7
40°-50°	520.2	19.0
50°-60°	440.1	16.1
60°-70°	297.7	10.9
70°-80°	144.0	5.3
80°-90°	35.1	1.3
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°	790.4	28.8
0°-40°	1302.8	47.5
0°-60°	2263.2	82.6
0°-90°	2740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	988	988	987	991	992	94
15°	956	961	968	979	983	270
25°	890	897	915	938	946	410
35°	789	798	819	845	853	494
45°	657	659	678	691	693	507
55°	495	491	494	494	491	443
65°	323	309	299	287	283	320
75°	162	150	133	116	105	173
85°	38	30	27	27	27	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	989.5	989.5	989.5	989.5	989.5
2.5°	990.9	990.9	988.2	990.9	992.2
5°	988.2	988.2	986.8	990.9	992.2
7.5°	982.7	984.1	984.1	989.5	992.2
10°	975.9	978.6	980.0	988.2	989.5
12.5°	967.7	970.5	974.5	984.1	985.4
15°	955.5	960.9	967.7	978.6	982.7
17.5°	943.2	948.7	956.8	971.8	975.9
20°	926.9	933.7	946.0	963.7	970.5
22.5°	910.6	916.0	931.0	952.8	959.6
25°	890.2	897.0	914.7	937.8	946.0
27.5°	867.0	876.5	895.6	920.1	928.3
30°	843.9	852.0	872.5	899.7	907.8
32.5°	816.7	824.8	848.0	873.8	883.3
35°	789.4	797.6	819.4	845.2	853.4
37.5°	759.5	764.9	788.1	809.9	818.0
40°	728.2	732.3	752.7	774.5	779.9
42.5°	694.2	696.9	715.9	735.0	736.4
45°	657.4	658.8	677.8	691.4	692.8
47.5°	620.7	619.3	635.6	645.2	646.5
50°	579.8	579.8	590.7	596.2	596.2
52.5°	539.0	536.3	541.7	545.8	541.7
55°	495.4	491.4	494.1	494.1	491.4
57.5°	451.9	443.7	445.1	442.4	435.5
60°	409.7	400.2	396.1	386.6	381.1
62.5°	366.1	355.2	347.1	336.2	334.8
65°	322.6	309.0	299.4	287.2	283.1
67.5°	280.4	268.1	254.5	240.9	232.7
70°	238.2	224.6	212.3	194.6	185.1
72.5°	200.1	187.8	172.9	152.4	145.6
75°	162.0	149.7	133.4	115.7	104.8
77.5°	125.2	115.7	98.0	83.0	81.7
80°	96.6	85.7	65.3	61.2	61.2
82.5°	62.6	55.8	46.3	43.6	43.6
85°	38.1	29.9	27.2	27.2	27.2
87.5°	15.0	13.6	13.6	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)