

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: P295601

Luminaire Tested: **14RLN-LD5-40-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295601
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-LD5-40-UNV-L82765-W2A1-U-5700K
Description: RLN LED 1x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4230.0 lumens
Efficiency: N/A
Efficacy: 104.3 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

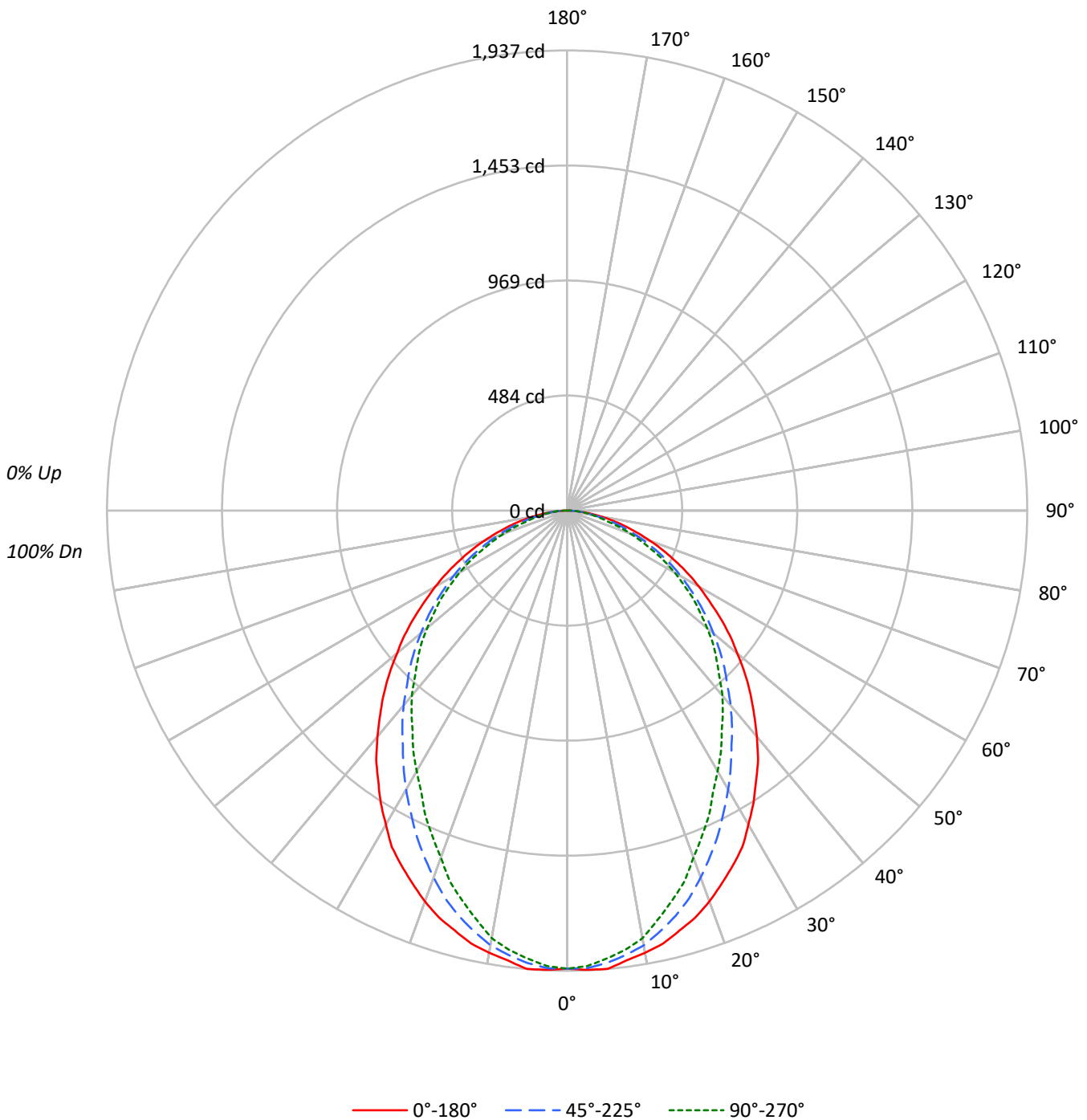
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5188	5188	5188
5°	5232	5164	5116
10°	5165	5078	4994
15°	5097	4918	4739
20°	5014	4707	4451
25°	4896	4467	4196
30°	4741	4214	3936
35°	4555	3962	3727
40°	4362	3759	3571
45°	4155	3563	3386
50°	3912	3366	3216
55°	3689	3177	3043
60°	3452	2981	2817
65°	3197	2753	2526
70°	2910	2474	2235
75°	2619	2210	1821
80°	2242	1799	1717
85°	1822	1711	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.5	4.3
10°-20°	495.4	11.7
20°-30°	695.3	16.4
30°-40°	771.2	18.2
40°-50°	740.4	17.5
50°-60°	620.5	14.7
60°-70°	435.5	10.3
70°-80°	227.4	5.4
80°-90°	63.7	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°	1371.3	32.4
0°-40°	2142.5	50.6
0°-60°	3503.4	82.8
0°-90°	4230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1928	1928	1928	1928	1928	
5°	1937	1912	1912	1899	1894	183
15°	1830	1797	1765	1719	1701	516
25°	1649	1590	1504	1431	1413	759
35°	1386	1310	1206	1147	1135	868
45°	1092	1008	936	900	890	841
55°	786	727	677	656	649	703
65°	502	468	432	406	397	499
75°	252	232	213	188	175	267
85°	59	55	55	55	55	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1927.9	1927.9	1927.9	1927.9	1927.9
2.5°	1935.0	1924.3	1927.9	1927.9	1918.9
5°	1936.8	1911.8	1911.8	1899.3	1893.9
7.5°	1910.0	1890.3	1886.8	1870.7	1865.3
10°	1890.3	1870.7	1858.2	1836.7	1827.8
12.5°	1867.1	1836.7	1813.5	1777.8	1763.5
15°	1829.6	1797.4	1765.3	1718.8	1701.0
17.5°	1795.6	1758.1	1709.9	1658.1	1638.4
20°	1751.0	1706.3	1643.8	1572.3	1554.4
22.5°	1699.2	1647.4	1574.1	1497.3	1483.0
25°	1649.1	1590.2	1504.4	1431.2	1413.3
27.5°	1597.3	1525.9	1427.6	1349.0	1331.1
30°	1525.9	1452.6	1356.1	1279.3	1266.8
32.5°	1459.7	1386.5	1281.1	1218.5	1204.2
35°	1386.5	1309.7	1206.0	1147.1	1134.6
37.5°	1320.4	1231.0	1139.9	1082.7	1075.6
40°	1241.8	1161.4	1070.2	1027.4	1016.6
42.5°	1164.9	1084.5	998.8	961.3	948.7
45°	1091.7	1007.7	936.2	900.5	889.8
47.5°	1014.9	938.0	870.1	841.5	834.4
50°	934.5	866.6	804.0	777.2	768.3
52.5°	863.0	793.3	741.5	716.5	705.8
55°	786.2	727.2	677.2	655.7	648.6
57.5°	709.3	661.1	612.8	593.2	582.5
60°	641.4	593.2	553.9	530.7	523.5
62.5°	571.7	530.7	493.1	471.7	462.8
65°	502.1	468.1	432.4	405.6	396.7
67.5°	437.7	400.2	371.6	348.4	339.5
70°	369.8	343.0	314.5	293.0	284.1
72.5°	307.3	287.7	262.6	239.4	230.5
75°	251.9	232.3	212.6	187.6	175.1
77.5°	196.5	184.0	164.4	142.9	142.9
80°	144.7	137.6	116.1	112.6	110.8
82.5°	100.1	96.5	84.0	82.2	82.2
85°	59.0	55.4	55.4	55.4	55.4
87.5°	25.0	26.8	28.6	28.6	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)