

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: P290974

Luminaire Tested: **14GR-LD5-40-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A-UNV-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3907.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

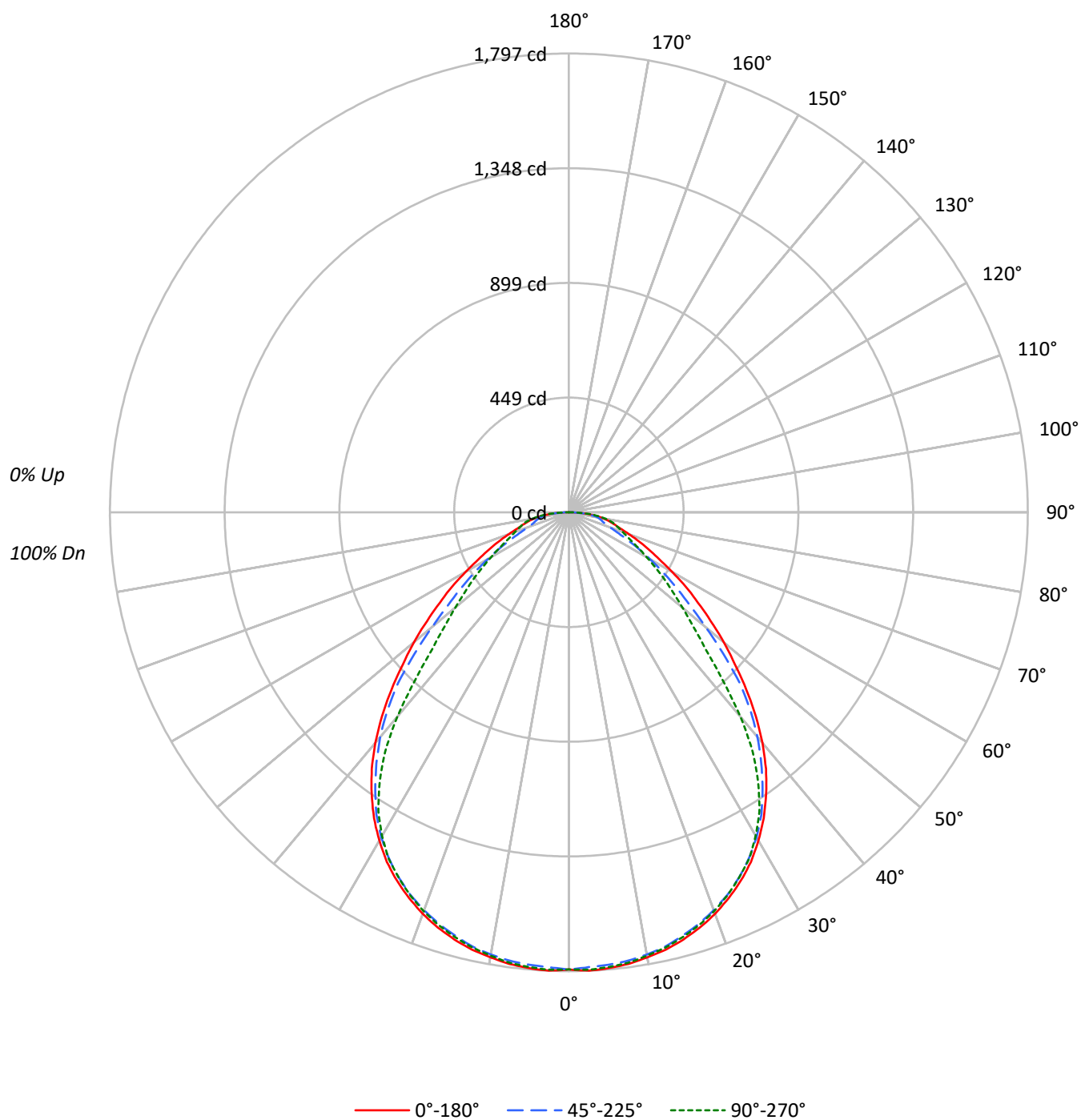
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10		
RCR																									
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100							
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86							
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74							
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66	64							
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56							
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50							
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	44							
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	40							
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	36							
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	33							
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	30							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4818	4818	4818
5°	4841	4804	4829
10°	4835	4805	4818
15°	4826	4783	4798
20°	4792	4748	4761
25°	4728	4683	4685
30°	4613	4565	4545
35°	4424	4343	4245
40°	4141	4036	3672
45°	3740	3598	2870
50°	3316	2921	2427
55°	2895	2397	2141
60°	2510	1973	1890
65°	2201	1583	1745
70°	1963	1342	1756
75°	1915	1415	1962
80°	2123	1785	2250
85°	2214	1905	2634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	4.3
10°-20°	486.6	12.5
20°-30°	727.9	18.6
30°-40°	821.7	21.0
40°-50°	697.1	17.8
50°-60°	471.7	12.1
60°-70°	281.5	7.2
70°-80°	176.3	4.5
80°-90°	74.2	1.9
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°	1384.4	35.4
0°-40°	2206.2	56.5
0°-60°	3375.0	86.4
0°-90°	3907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1790	1790	1790	1790	1790	
5°	1792	1787	1779	1791	1788	170
15°	1732	1729	1717	1729	1722	488
25°	1592	1587	1577	1584	1578	732
35°	1347	1338	1322	1310	1292	839
45°	983	986	946	810	754	757
55°	617	588	511	457	456	556
65°	346	287	249	265	274	346
75°	184	164	136	180	189	198
85°	72	68	62	80	85	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1790.4	1790.4	1790.4	1790.4	1790.4
2.5°	1796.7	1791.3	1783.1	1794.0	1793.1
5°	1792.2	1786.7	1778.6	1791.3	1787.6
7.5°	1784.0	1779.5	1771.3	1783.1	1779.5
10°	1769.5	1765.9	1758.6	1768.6	1763.1
12.5°	1754.1	1751.3	1742.3	1751.3	1745.9
15°	1732.3	1728.7	1716.9	1728.7	1722.3
17.5°	1705.1	1700.5	1690.5	1700.5	1695.1
20°	1673.3	1667.9	1657.9	1667.9	1662.4
22.5°	1635.2	1630.7	1621.6	1630.7	1623.4
25°	1592.5	1587.1	1577.1	1584.4	1578.0
27.5°	1543.5	1536.3	1527.2	1532.7	1529.0
30°	1484.6	1475.5	1469.1	1469.1	1462.8
32.5°	1420.1	1413.8	1402.9	1396.5	1388.4
35°	1346.6	1337.6	1322.1	1310.3	1292.2
37.5°	1267.7	1256.8	1237.7	1207.8	1183.3
40°	1178.8	1165.1	1148.8	1089.8	1045.4
42.5°	1083.5	1080.7	1052.6	951.9	890.2
45°	982.7	986.4	945.5	810.3	754.1
47.5°	881.1	893.8	819.4	686.9	657.9
50°	792.2	796.7	697.8	596.2	579.8
52.5°	700.5	693.3	595.3	524.5	512.7
55°	617.1	588.0	510.9	457.3	456.4
57.5°	543.6	490.0	436.5	396.5	401.1
60°	466.4	406.5	366.6	344.8	351.2
62.5°	398.4	341.2	305.8	299.5	310.3
65°	345.7	286.7	248.6	265.0	274.0
67.5°	295.8	245.9	202.4	241.4	245.0
70°	249.5	213.2	170.6	222.3	223.2
72.5°	211.4	188.7	147.9	201.4	204.2
75°	184.2	164.2	136.1	179.7	188.7
77.5°	161.5	140.7	126.1	155.2	170.6
80°	137.0	113.4	115.2	129.8	145.2
82.5°	105.3	88.0	91.7	107.1	118.0
85°	71.7	68.1	61.7	79.9	85.3
87.5°	38.1	36.3	31.8	45.4	42.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)