

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: P290784

Luminaire Tested: **14GR-LD5-43-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33313)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F125-UNV-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4363.0 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

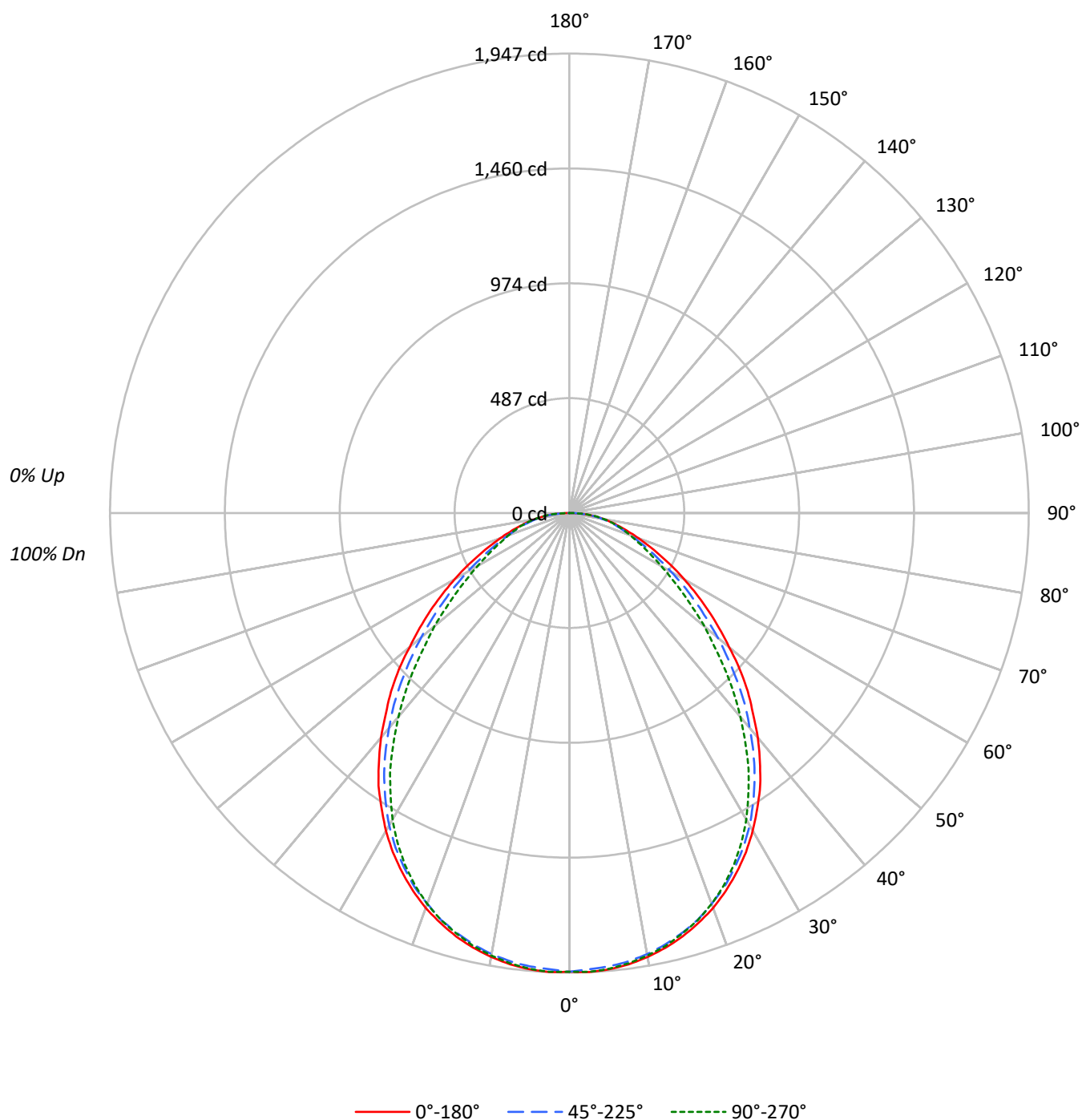
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	101	93	87	81	98	91	85	80	88	83	78		84	80	77		81
3	92	83	75	69	90	81	74	68	78	72	67		75	70	66		73
4	85	74	66	59	83	73	65	59	70	64	58		68	62	58		66
5	79	67	58	52	77	66	58	52	64	57	51		62	55	51		60
6	73	60	52	46	71	60	52	46	58	51	45		56	50	45		55
7	68	55	47	41	66	54	47	41	53	46	41		51	45	40		50
8	64	51	43	37	62	50	42	37	49	42	37		47	41	36		46
9	60	47	39	34	58	46	39	33	45	38	33		44	38	33		43
10	56	43	36	31	55	43	35	31	42	35	30		41	35	30		40

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5230	5230	5230
5°	5242	5209	5237
10°	5219	5185	5202
15°	5172	5132	5141
20°	5100	5044	5047
25°	4984	4923	4889
30°	4830	4748	4658
35°	4632	4498	4350
40°	4364	4176	3957
45°	4069	3823	3539
50°	3700	3430	3125
55°	3368	3041	2724
60°	3020	2679	2420
65°	2693	2387	2223
70°	2449	2175	2151
75°	2289	2119	2225
80°	2301	2190	2317
85°	2402	2245	2560



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.8	4.2
10°-20°	521.0	11.9
20°-30°	763.9	17.5
30°-40°	852.7	19.5
40°-50°	772.0	17.7
50°-60°	582.9	13.4
60°-70°	381.0	8.7
70°-80°	223.8	5.1
80°-90°	81.9	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°	1468.8	33.7
0°-40°	2321.4	53.2
0°-60°	3676.3	84.3
0°-90°	4363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1944	1944	1944	1944	1944	
5°	1941	1936	1928	1940	1939	184
15°	1857	1854	1842	1852	1845	523
25°	1678	1672	1658	1655	1647	772
35°	1410	1398	1369	1338	1324	878
45°	1069	1053	1005	950	930	821
55°	718	702	648	597	581	642
65°	423	410	375	353	349	424
75°	220	214	204	208	214	237
85°	78	75	73	82	83	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1943.7	1943.7	1943.7	1943.7	1943.7
2.5°	1946.8	1943.7	1934.5	1946.8	1945.7
5°	1940.6	1936.5	1928.3	1939.6	1938.6
7.5°	1928.3	1924.2	1916.0	1926.3	1924.2
10°	1909.9	1905.8	1897.6	1908.9	1903.8
12.5°	1886.3	1882.2	1873.0	1883.3	1879.2
15°	1856.6	1853.6	1842.3	1852.5	1845.4
17.5°	1820.8	1815.7	1807.5	1813.6	1808.5
20°	1780.9	1774.7	1761.4	1767.5	1762.4
22.5°	1732.7	1724.5	1715.3	1715.3	1708.2
25°	1678.5	1672.3	1658.0	1654.9	1646.7
27.5°	1620.1	1615.0	1596.5	1591.4	1577.1
30°	1554.5	1547.4	1527.9	1511.5	1499.2
32.5°	1481.8	1476.7	1450.1	1428.6	1411.2
35°	1410.1	1397.9	1369.2	1338.5	1324.1
37.5°	1326.2	1317.0	1281.1	1243.2	1223.8
40°	1242.2	1230.9	1188.9	1147.0	1126.5
42.5°	1151.1	1140.8	1100.9	1050.7	1029.2
45°	1069.1	1052.7	1004.6	950.3	929.9
47.5°	979.0	961.6	910.4	853.1	829.5
50°	883.8	872.5	819.3	764.0	746.5
52.5°	798.8	781.4	731.2	676.9	658.5
55°	717.9	701.5	648.2	597.0	580.6
57.5°	637.0	618.5	572.5	526.4	510.0
60°	561.2	542.8	497.7	459.8	449.6
62.5°	492.6	472.1	432.2	402.5	395.3
65°	422.9	409.6	374.8	353.3	349.2
67.5°	364.6	348.2	320.5	310.3	308.2
70°	311.3	300.1	276.5	273.4	273.4
72.5°	263.2	254.0	236.6	238.6	241.7
75°	220.2	214.0	203.8	207.9	214.0
77.5°	183.3	177.2	171.0	177.2	181.3
80°	148.5	142.3	141.3	146.4	149.5
82.5°	111.6	106.5	107.5	115.7	118.8
85°	77.8	74.8	72.7	81.9	82.9
87.5°	39.9	37.9	36.9	44.0	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)