

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: P290845

Luminaire Tested: **14GR-LD5-43-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290845
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-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4355.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

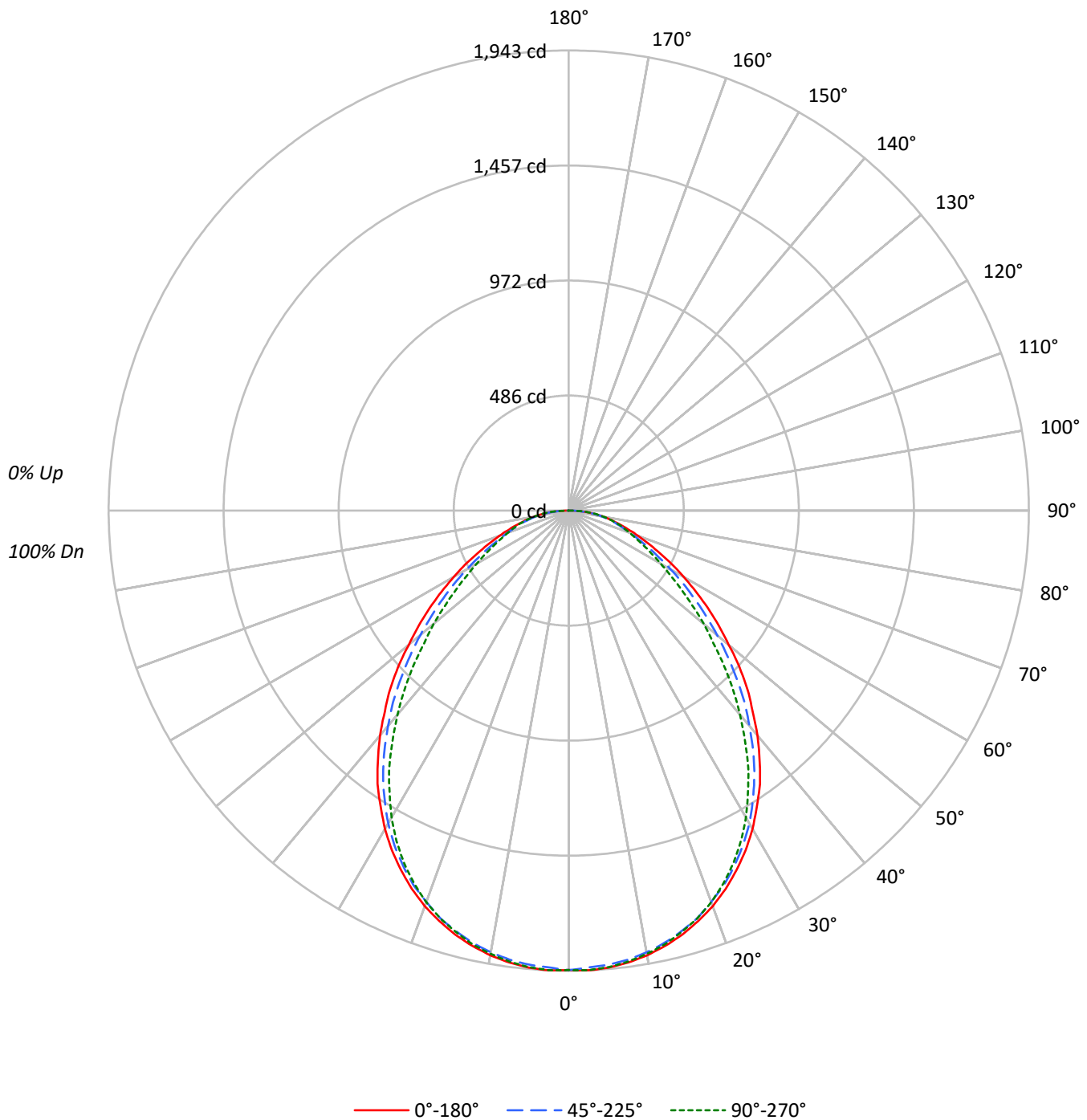
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5221	5221	5221
5°	5233	5199	5227
10°	5209	5176	5193
15°	5163	5123	5132
20°	5090	5035	5038
25°	4975	4914	4880
30°	4822	4739	4650
35°	4624	4490	4342
40°	4356	4169	3950
45°	4061	3816	3532
50°	3693	3424	3120
55°	3362	3035	2719
60°	3015	2674	2415
65°	2688	2382	2220
70°	2445	2172	2147
75°	2285	2115	2221
80°	2297	2187	2312
85°	2399	2242	2556



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	4.2
10°-20°	520.1	11.9
20°-30°	762.5	17.5
30°-40°	851.1	19.5
40°-50°	770.6	17.7
50°-60°	581.8	13.4
60°-70°	380.3	8.7
70°-80°	223.4	5.1
80°-90°	81.8	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°	1466.1	33.7
0°-40°	2317.2	53.2
0°-60°	3669.5	84.3
0°-90°	4355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1940	1940	1940	1940	1940	
5°	1937	1933	1925	1936	1935	184
15°	1853	1850	1839	1849	1842	522
25°	1675	1669	1655	1652	1644	771
35°	1408	1395	1367	1336	1322	877
45°	1067	1051	1003	949	928	820
55°	717	700	647	596	580	641
65°	422	409	374	353	349	424
75°	220	214	203	208	214	236
85°	78	75	73	82	83	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1940.1	1940.1	1940.1	1940.1	1940.1
2.5°	1943.2	1940.1	1930.9	1943.2	1942.2
5°	1937.1	1933.0	1924.8	1936.0	1935.0
7.5°	1924.8	1920.7	1912.5	1922.7	1920.7
10°	1906.4	1902.3	1894.1	1905.4	1900.3
12.5°	1882.9	1878.8	1869.6	1879.8	1875.7
15°	1853.2	1850.2	1838.9	1849.1	1842.0
17.5°	1817.5	1812.4	1804.2	1810.3	1805.2
20°	1777.6	1771.5	1758.2	1764.3	1759.2
22.5°	1729.6	1721.4	1712.2	1712.2	1705.0
25°	1675.4	1669.2	1654.9	1651.9	1643.7
27.5°	1617.1	1612.0	1593.6	1588.5	1574.2
30°	1551.7	1544.5	1525.1	1508.8	1496.5
32.5°	1479.1	1474.0	1447.4	1426.0	1408.6
35°	1407.6	1395.3	1366.7	1336.0	1321.7
37.5°	1323.7	1314.5	1278.8	1240.9	1221.5
40°	1239.9	1228.7	1186.8	1144.9	1124.4
42.5°	1148.9	1138.7	1098.9	1048.8	1027.3
45°	1067.2	1050.8	1002.8	948.6	928.2
47.5°	977.2	959.8	908.7	851.5	828.0
50°	882.2	870.9	817.8	762.6	745.2
52.5°	797.3	779.9	729.8	675.7	657.3
55°	716.6	700.2	647.0	595.9	579.6
57.5°	635.8	617.4	571.4	525.4	509.1
60°	560.2	541.8	496.8	459.0	448.7
62.5°	491.7	471.2	431.4	401.7	394.6
65°	422.2	408.9	374.1	352.7	348.6
67.5°	363.9	347.5	319.9	309.7	307.7
70°	310.7	299.5	276.0	272.9	272.9
72.5°	262.7	253.5	236.1	238.2	241.2
75°	219.8	213.6	203.4	207.5	213.6
77.5°	183.0	176.8	170.7	176.8	180.9
80°	148.2	142.1	141.1	146.2	149.2
82.5°	111.4	106.3	107.3	115.5	118.6
85°	77.7	74.6	72.6	81.8	82.8
87.5°	39.9	37.8	36.8	44.0	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)