

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: P290873

Luminaire Tested: **14GR-LD5-36-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290873
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-LD5-36-F125-UNV-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3355.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

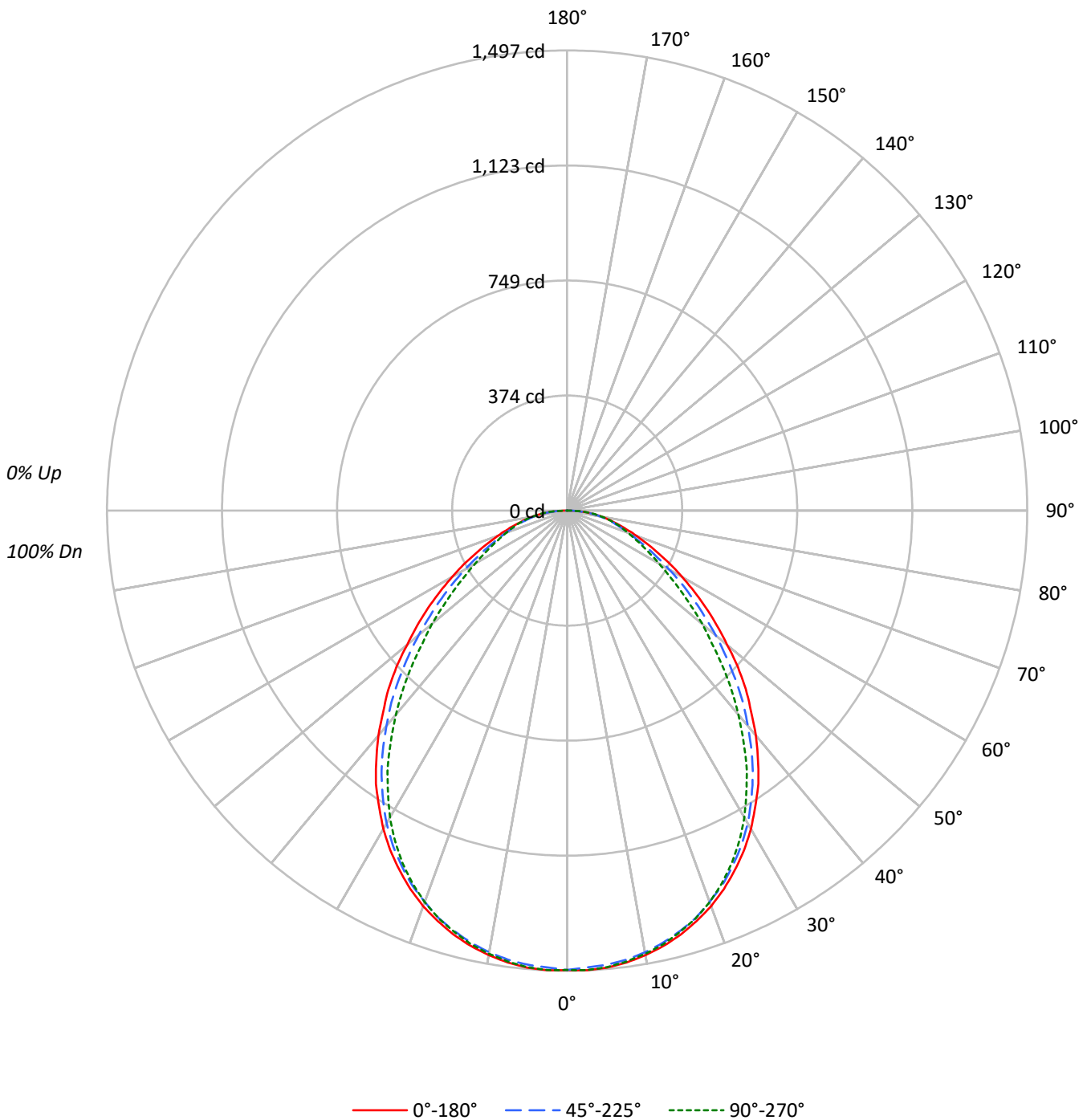
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	58	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	51	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4022	4022	4022
5°	4031	4005	4027
10°	4013	3987	4000
15°	3977	3947	3953
20°	3922	3879	3881
25°	3832	3785	3760
30°	3714	3651	3582
35°	3562	3459	3345
40°	3355	3212	3043
45°	3129	2940	2721
50°	2845	2637	2403
55°	2590	2339	2095
60°	2322	2060	1861
65°	2071	1835	1710
70°	1884	1673	1655
75°	1760	1629	1711
80°	1770	1684	1782
85°	1846	1726	1970



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	4.2
10°-20°	400.7	11.9
20°-30°	587.4	17.5
30°-40°	655.7	19.5
40°-50°	593.6	17.7
50°-60°	448.2	13.4
60°-70°	293.0	8.7
70°-80°	172.1	5.1
80°-90°	63.0	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°	1129.4	33.7
0°-40°	1785.1	53.2
0°-60°	2826.9	84.3
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1492	1489	1483	1492	1491	142
15°	1428	1425	1417	1424	1419	402
25°	1291	1286	1275	1273	1266	594
35°	1084	1075	1053	1029	1018	675
45°	822	810	772	731	715	632
55°	552	539	498	459	446	494
65°	325	315	288	272	268	326
75°	169	165	157	160	165	182
85°	60	58	56	63	64	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1494.6	1494.6	1494.6	1494.6	1494.6
2.5°	1497.0	1494.6	1487.5	1497.0	1496.2
5°	1492.3	1489.1	1482.8	1491.5	1490.7
7.5°	1482.8	1479.7	1473.4	1481.2	1479.7
10°	1468.6	1465.5	1459.2	1467.9	1463.9
12.5°	1450.5	1447.4	1440.3	1448.2	1445.0
15°	1427.7	1425.3	1416.7	1424.5	1419.0
17.5°	1400.1	1396.2	1389.9	1394.6	1390.7
20°	1369.4	1364.7	1354.5	1359.2	1355.2
22.5°	1332.4	1326.1	1319.0	1319.0	1313.5
25°	1290.7	1285.9	1274.9	1272.6	1266.3
27.5°	1245.8	1241.9	1227.7	1223.7	1212.7
30°	1195.4	1189.9	1174.9	1162.3	1152.9
32.5°	1139.5	1135.5	1115.1	1098.5	1085.1
35°	1084.4	1074.9	1052.9	1029.2	1018.2
37.5°	1019.8	1012.7	985.1	956.0	941.0
40°	955.2	946.5	914.3	882.0	866.2
42.5°	885.1	877.2	846.5	808.0	791.4
45°	822.1	809.5	772.5	730.8	715.0
47.5°	752.8	739.4	700.1	656.0	637.9
50°	679.6	670.9	630.0	587.5	574.1
52.5°	614.2	600.8	562.3	520.5	506.3
55°	552.0	539.4	498.5	459.1	446.5
57.5°	489.8	475.6	440.2	404.8	392.2
60°	431.5	417.4	382.7	353.6	345.7
62.5°	378.8	363.0	332.3	309.5	304.0
65°	325.2	315.0	288.2	271.7	268.5
67.5°	280.3	267.7	246.5	238.6	237.0
70°	239.4	230.7	212.6	210.3	210.3
72.5°	202.4	195.3	181.9	183.5	185.8
75°	169.3	164.6	156.7	159.9	164.6
77.5°	141.0	136.2	131.5	136.2	139.4
80°	114.2	109.5	108.7	112.6	115.0
82.5°	85.8	81.9	82.7	89.0	91.3
85°	59.8	57.5	55.9	63.0	63.8
87.5°	30.7	29.1	28.3	33.9	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)