

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: P293414

Luminaire Tested: **24GR-LD5-30-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A-UNV-L83050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3084.0 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

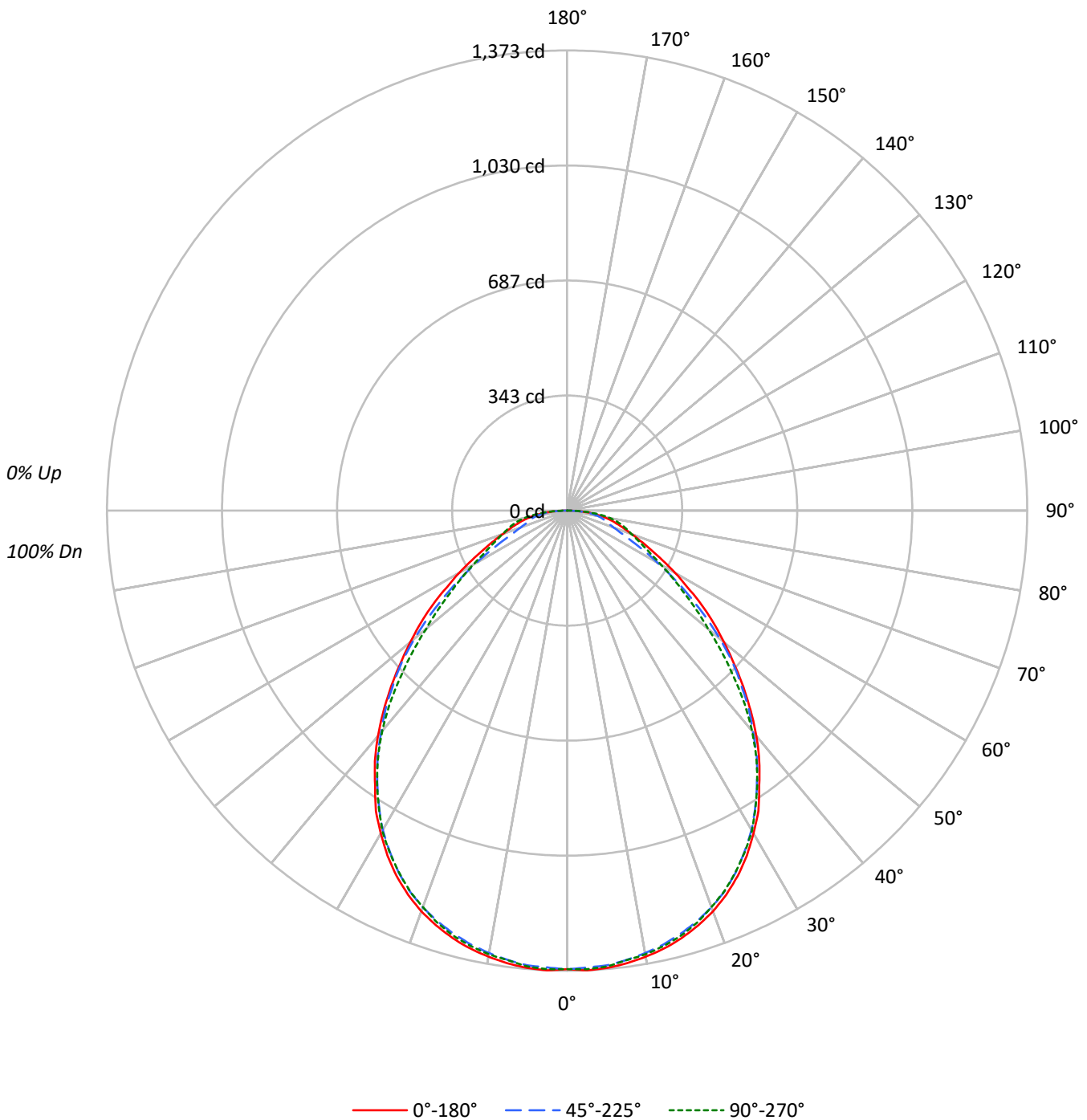
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1841	1841	1841
5°	1850	1840	1844
10°	1847	1832	1837
15°	1840	1821	1829
20°	1822	1804	1803
25°	1787	1768	1766
30°	1728	1710	1714
35°	1641	1622	1625
40°	1543	1516	1507
45°	1414	1395	1340
50°	1279	1244	1150
55°	1148	1045	991
60°	1005	841	872
65°	877	661	802
70°	802	577	802
75°	803	614	884
80°	871	724	1008
85°	956	817	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.6	4.2
10°-20°	369.8	12.0
20°-30°	548.3	17.8
30°-40°	618.6	20.1
40°-50°	560.2	18.2
50°-60°	404.2	13.1
60°-70°	241.3	7.8
70°-80°	149.2	4.8
80°-90°	62.8	2.0
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°	1047.7	34.0
0°-40°	1666.3	54.0
0°-60°	2630.7	85.3
0°-90°	3084.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1370	1368	1362	1361	1366	130
15°	1321	1313	1307	1308	1313	372
25°	1204	1197	1191	1186	1190	553
35°	999	998	988	988	989	625
45°	743	738	733	715	704	573
55°	489	474	446	424	423	437
65°	275	242	208	236	252	277
75°	154	134	118	147	170	165
85°	62	54	53	69	70	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.3	1368.3	1368.3	1368.3	1368.3
2.5°	1373.1	1369.3	1364.5	1367.4	1369.8
5°	1369.8	1367.9	1362.1	1360.7	1365.5
7.5°	1362.6	1357.9	1352.6	1355.0	1353.1
10°	1351.7	1347.4	1340.7	1341.2	1344.5
12.5°	1338.3	1333.1	1325.9	1327.8	1330.7
15°	1320.7	1312.6	1307.4	1307.8	1313.1
17.5°	1298.3	1292.1	1285.4	1286.9	1289.2
20°	1272.6	1269.2	1259.7	1256.8	1259.2
22.5°	1240.2	1234.0	1228.7	1227.3	1227.8
25°	1203.5	1196.8	1190.6	1186.3	1189.7
27.5°	1160.6	1154.9	1146.8	1145.4	1148.2
30°	1112.0	1107.7	1100.6	1098.7	1103.0
32.5°	1062.5	1055.3	1045.3	1045.3	1046.3
35°	999.1	997.7	987.7	988.1	989.1
37.5°	941.9	935.3	929.5	923.8	926.7
40°	878.6	870.9	863.3	859.5	858.1
42.5°	810.4	804.7	801.4	787.6	784.2
45°	743.2	738.5	733.2	715.1	704.2
47.5°	674.6	673.7	669.4	637.5	626.5
50°	610.8	609.4	594.1	560.3	549.3
52.5°	550.3	540.8	520.7	487.4	485.5
55°	489.3	474.1	445.5	423.6	422.6
57.5°	425.0	406.9	377.8	365.9	372.1
60°	373.5	345.9	312.5	314.0	324.0
62.5°	320.2	289.2	256.3	270.6	282.5
65°	275.4	242.5	207.7	235.8	252.0
67.5°	236.3	205.8	172.5	210.1	225.8
70°	203.9	179.1	146.7	186.3	203.9
72.5°	178.2	155.3	130.1	167.2	187.7
75°	154.4	133.9	118.2	147.2	170.1
77.5°	133.9	113.9	106.7	130.1	152.5
80°	112.4	94.3	93.4	113.4	130.1
82.5°	87.7	75.3	75.3	94.8	104.8
85°	61.9	54.3	52.9	69.1	70.0
87.5°	31.9	30.5	27.6	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)