

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: P294093

Luminaire Tested: **24GR-LD5-30-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294093
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-A19/156-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2742.0 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

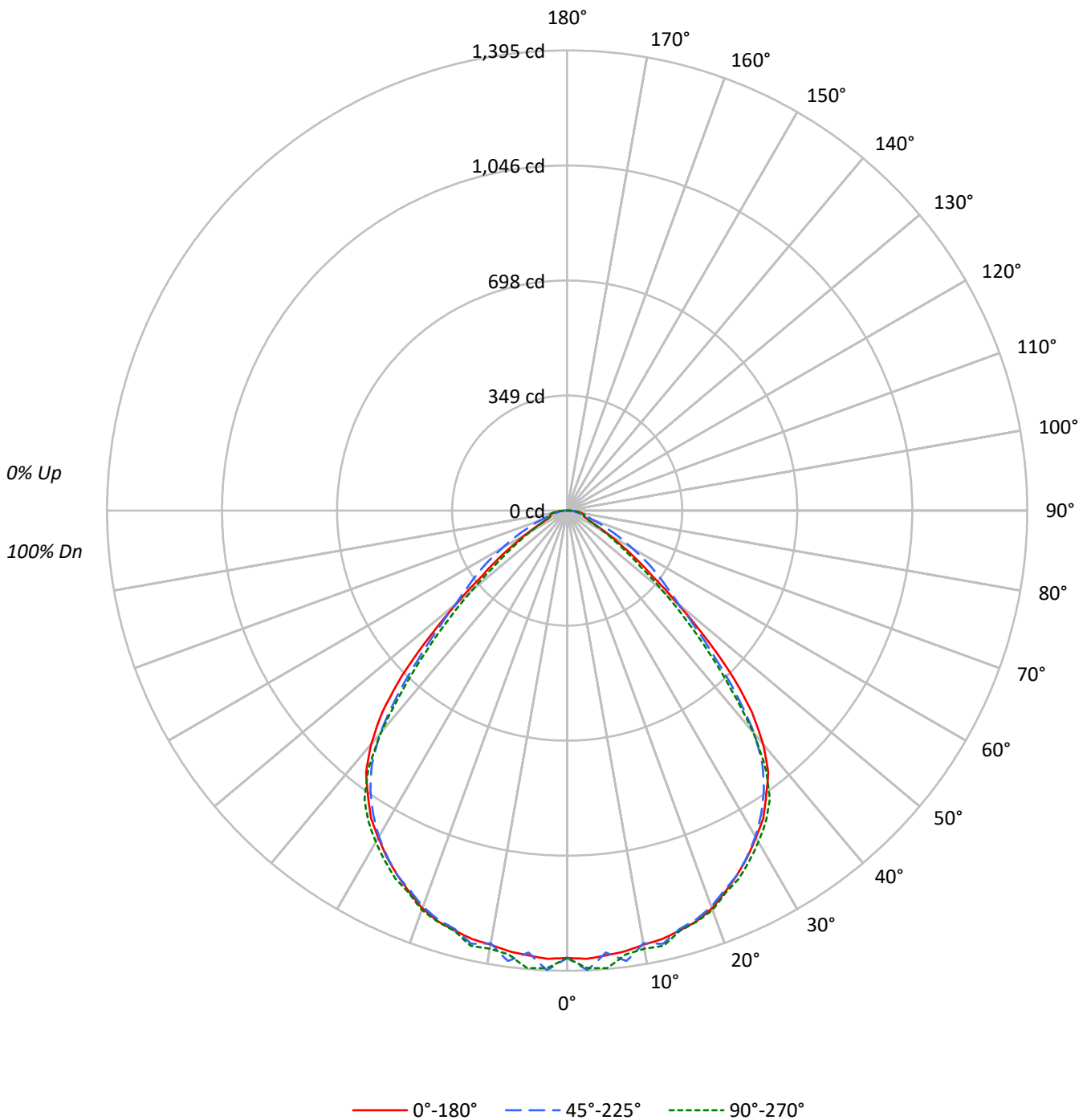
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	53					53			
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	48					48			
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	43					43			
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	39					39			
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	36					36			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1824	1824	1824
5°	1828	1816	1881
10°	1825	1820	1842
15°	1836	1830	1837
20°	1837	1830	1845
25°	1809	1810	1828
30°	1779	1773	1802
35°	1729	1708	1759
40°	1623	1551	1542
45°	1346	1217	1155
50°	905	924	789
55°	597	775	517
60°	383	611	354
65°	247	467	240
70°	218	334	218
75°	282	266	284
80°	345	229	362
85°	401	340	421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.8	4.7
10°-20°	372.8	13.6
20°-30°	561.2	20.5
30°-40°	650.4	23.7
40°-50°	508.1	18.5
50°-60°	271.3	9.9
60°-70°	139.5	5.1
70°-80°	78.9	2.9
80°-90°	30.0	1.1
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°	1063.7	38.8
0°-40°	1714.2	62.5
0°-60°	2493.6	90.9
0°-90°	2742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1354	1392	1345	1382	1392	129
15°	1318	1326	1314	1322	1319	372
25°	1218	1214	1219	1218	1231	561
35°	1052	1048	1040	1060	1071	656
45°	707	708	640	634	607	533
55°	254	322	330	298	221	235
65°	78	162	147	161	75	85
75°	54	102	51	95	55	55
85°	26	34	22	34	27	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1355.8	1355.8	1355.8	1355.8	1355.8
2.5°	1360.2	1384.9	1394.6	1382.7	1388.0
5°	1353.6	1391.5	1344.8	1381.8	1392.4
7.5°	1347.5	1343.5	1377.4	1342.2	1357.2
10°	1336.0	1338.7	1332.1	1357.2	1348.4
12.5°	1330.7	1346.2	1344.8	1332.1	1351.4
15°	1318.0	1326.3	1313.6	1321.9	1318.9
17.5°	1305.2	1301.2	1299.9	1303.4	1306.5
20°	1283.2	1270.0	1277.9	1278.8	1288.5
22.5°	1251.5	1243.6	1245.3	1253.2	1254.1
25°	1218.5	1214.5	1219.3	1217.6	1231.2
27.5°	1184.1	1178.8	1181.9	1188.5	1196.9
30°	1144.9	1143.6	1141.4	1147.1	1159.9
32.5°	1106.2	1095.6	1093.8	1105.7	1120.3
35°	1052.4	1047.6	1039.7	1060.4	1070.9
37.5°	1001.4	986.4	973.6	985.9	990.3
40°	924.3	912.8	882.9	884.2	878.1
42.5°	829.6	821.3	764.0	753.9	736.7
45°	707.2	707.6	639.8	634.1	606.8
47.5°	565.0	590.1	531.1	524.5	483.9
50°	432.4	477.8	441.2	430.7	376.9
52.5°	324.5	391.0	379.6	356.7	282.7
55°	254.5	321.9	330.3	297.7	220.6
57.5°	191.6	265.1	278.7	251.9	170.4
60°	142.2	223.3	227.2	216.7	131.7
62.5°	105.7	189.8	184.5	185.8	97.8
65°	77.5	161.6	146.6	161.2	75.3
67.5°	63.4	140.0	114.1	139.6	61.2
70°	55.5	124.2	85.0	122.9	55.5
72.5°	53.7	114.1	67.4	109.2	54.2
75°	54.2	101.7	51.1	95.1	54.6
77.5°	49.8	83.7	38.8	81.0	52.0
80°	44.5	63.4	29.5	64.3	46.7
82.5°	37.9	46.2	23.8	47.6	39.2
85°	26.0	33.9	22.0	33.9	27.3
87.5°	12.3	20.3	13.7	19.4	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)