

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: P558488

Luminaire Tested: **24CBRK-A-42-UNV-L840-CD1-WAA-U**

Issue Date: 7/20/2021



Test Information

Test Method: LM-79-08
Report Number: P558488
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-259-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 7/20/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CBRK-A-42-UNV-L840-CD1-WAA-U
Description: 2X4 4200 LUMEN, LED TROFFER RETROFIT KIT WITH 4000K AND 80 CRI LEDS
Light Source: -
Ballast/Driver: -

Summary

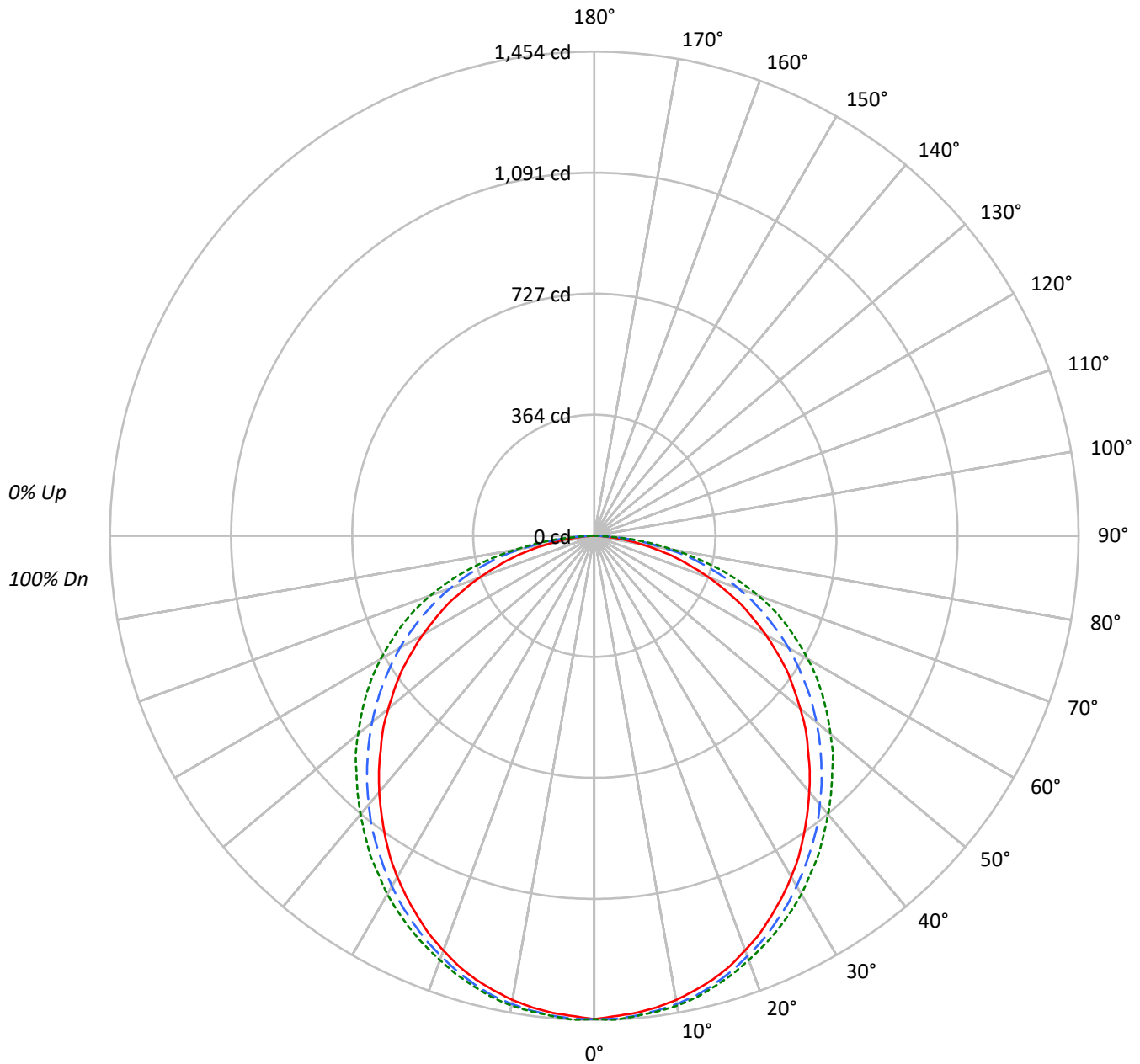
Lumens per Lamp: N/A
Luminaire Lumens: 4270.0 lumens
Efficiency: N/A
Efficacy: 157.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 27.2
Input Voltage (V): NR
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	90	82	76	95	88	81	76	84	79	74	81	76	72	78	74	70	68		
3	89	78	70	63	87	77	69	63	74	67	61	71	65	60	68	63	59	57		
4	82	69	60	53	79	68	59	53	65	58	52	63	57	51	61	55	51	48		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	69	55	46	40	67	55	46	40	53	45	39	51	44	39	49	43	39	36		
7	64	50	41	35	62	49	41	35	48	40	35	46	40	34	45	39	34	32		
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	28	26		
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1953	1953	1953
5°	1943	1954	1955
10°	1934	1950	1958
15°	1921	1941	1951
20°	1897	1924	1941
25°	1868	1907	1936
30°	1838	1888	1932
35°	1801	1870	1925
40°	1764	1850	1918
45°	1726	1834	1921
50°	1689	1822	1938
55°	1655	1814	1963
60°	1601	1815	1993
65°	1545	1807	2031
70°	1441	1808	2058
75°	1314	1792	2031
80°	1079	1676	1854
85°	710	1399	1544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	3.2
10°-20°	392.5	9.2
20°-30°	591.5	13.9
30°-40°	711.1	16.7
40°-50°	742.8	17.4
50°-60°	690.2	16.2
60°-70°	557.6	13.1
70°-80°	349.9	8.2
80°-90°	97.0	2.3
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°	1121.3	26.3
0°-40°	1832.4	42.9
0°-60°	3265.5	76.5
0°-90°	4270.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4270.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1438	1441	1446	1449	1448	137
15°	1379	1384	1394	1399	1400	389
25°	1258	1267	1284	1300	1304	580
35°	1096	1110	1138	1161	1172	686
45°	907	926	964	999	1010	701
55°	706	724	773	819	837	629
65°	485	510	568	619	638	477
75°	253	288	345	381	391	265
85°	46	73	91	100	100	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.8	1451.8	1451.8	1451.8	1451.8
2.5°	1443.7	1446.4	1451.8	1454.5	1454.5
5°	1438.3	1441.0	1446.4	1449.1	1447.7
7.5°	1428.8	1432.9	1438.3	1441.0	1441.0
10°	1415.3	1419.3	1427.5	1432.9	1432.9
12.5°	1397.7	1403.1	1413.9	1418.0	1419.3
15°	1378.8	1384.2	1393.7	1399.1	1400.4
17.5°	1354.5	1359.9	1370.7	1377.4	1380.1
20°	1324.7	1331.5	1343.6	1354.5	1355.8
22.5°	1295.0	1301.7	1316.6	1328.8	1331.5
25°	1258.5	1266.6	1284.2	1300.4	1304.4
27.5°	1222.0	1231.5	1251.7	1269.3	1274.7
30°	1182.8	1193.6	1215.2	1235.5	1243.6
32.5°	1142.2	1153.0	1177.4	1200.4	1205.8
35°	1096.3	1109.8	1138.2	1161.2	1172.0
37.5°	1050.3	1066.5	1099.0	1126.0	1131.4
40°	1004.4	1020.6	1053.0	1084.1	1092.2
42.5°	957.0	974.6	1009.8	1042.2	1051.7
45°	907.0	926.0	963.8	998.9	1009.8
47.5°	861.1	877.3	917.8	955.7	971.9
50°	807.0	827.3	870.5	911.1	926.0
52.5°	755.6	775.9	823.2	866.5	881.3
55°	705.6	724.5	773.2	819.2	836.7
57.5°	648.8	671.8	723.2	773.2	790.8
60°	594.8	617.8	674.5	724.5	740.8
62.5°	538.0	565.0	620.5	670.5	688.0
65°	485.3	509.6	567.7	619.1	638.0
67.5°	423.1	452.8	515.0	565.0	584.0
70°	366.3	396.1	459.6	508.3	523.1
72.5°	306.8	342.0	405.5	446.1	458.2
75°	252.8	287.9	344.7	381.2	390.7
77.5°	194.7	231.2	286.6	308.2	316.3
80°	139.2	179.8	216.3	233.9	239.3
82.5°	90.6	127.1	151.4	164.9	170.3
85°	46.0	73.0	90.6	100.0	100.0
87.5°	14.9	27.0	32.4	28.4	21.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)