

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: P276957

Luminaire Tested: **24CZ2-70HE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-70HE-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4477.9 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

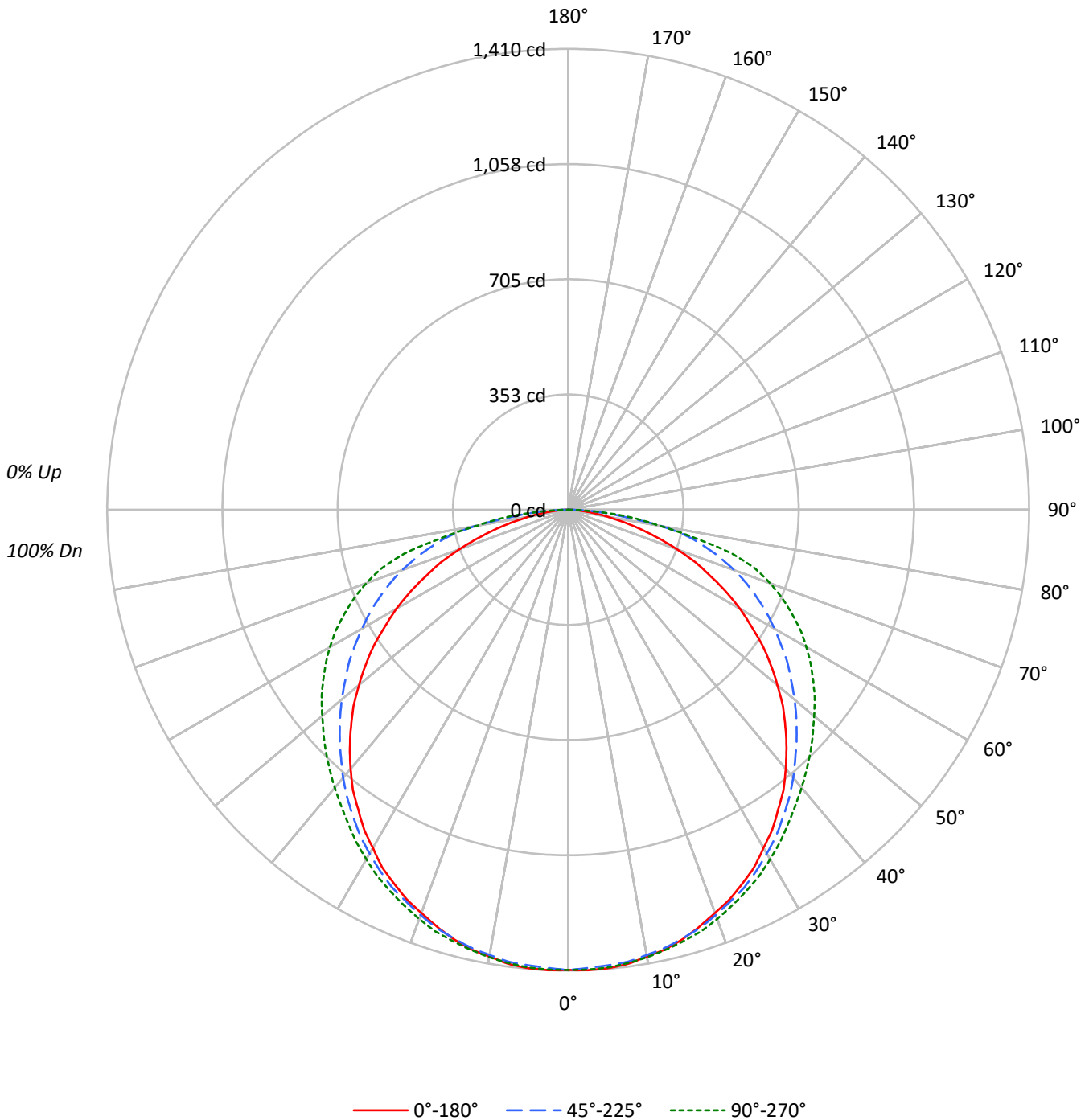
Input Watts (W): 54.312
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1895	1895	1895
5°	1902	1890	1899
10°	1897	1890	1900
15°	1893	1890	1903
20°	1880	1889	1908
25°	1873	1893	1912
30°	1856	1888	1919
35°	1839	1883	1926
40°	1818	1880	1950
45°	1788	1881	1995
50°	1748	1892	2055
55°	1704	1923	2147
60°	1632	1960	2265
65°	1528	2030	2404
70°	1389	2123	2586
75°	1178	2240	2702
80°	929	2255	2186
85°	685	1715	1920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.0
10°-20°	384.4	8.6
20°-30°	587.9	13.1
30°-40°	718.7	16.0
40°-50°	766.0	17.1
50°-60°	732.4	16.4
60°-70°	620.4	13.9
70°-80°	416.9	9.3
80°-90°	117.6	2.6
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°	1105.9	24.7
0°-40°	1824.6	40.7
0°-60°	3322.9	74.2
0°-90°	4477.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4477.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1408	1406	1399	1406	1406	134
15°	1359	1359	1357	1368	1366	383
25°	1262	1266	1275	1286	1288	581
35°	1119	1128	1146	1168	1173	701
45°	940	955	988	1031	1048	725
55°	726	753	820	884	915	647
65°	480	529	638	722	755	476
75°	227	309	431	504	520	243
85°	44	91	111	120	124	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1408.2	1408.2	1408.2	1408.2	1408.2
2.5°	1410.4	1410.4	1403.7	1408.2	1408.2
5°	1408.2	1405.9	1399.3	1405.9	1405.9
7.5°	1401.5	1399.3	1394.8	1401.5	1399.3
10°	1388.2	1388.2	1383.7	1390.4	1390.4
12.5°	1377.1	1374.9	1372.6	1381.5	1379.3
15°	1359.3	1359.3	1357.1	1368.2	1366.0
17.5°	1337.1	1339.3	1341.5	1350.4	1352.6
20°	1312.7	1317.1	1319.3	1332.7	1332.7
22.5°	1290.5	1292.7	1297.1	1310.4	1310.4
25°	1261.6	1266.0	1274.9	1286.0	1288.2
27.5°	1232.7	1234.9	1246.0	1261.6	1263.8
30°	1194.9	1201.6	1214.9	1232.7	1234.9
32.5°	1161.6	1168.3	1183.8	1201.6	1206.0
35°	1119.4	1128.3	1146.1	1168.3	1172.7
37.5°	1081.7	1088.3	1110.5	1135.0	1141.6
40°	1035.0	1048.4	1070.6	1099.4	1110.5
42.5°	988.4	1001.7	1028.4	1066.1	1079.4
45°	939.5	955.1	988.4	1030.6	1048.4
47.5°	890.7	908.4	946.2	995.0	1015.0
50°	835.1	857.3	904.0	959.5	981.7
52.5°	781.8	808.5	859.6	921.8	950.6
55°	726.3	752.9	819.6	884.0	915.1
57.5°	664.1	699.6	772.9	846.2	879.5
60°	606.4	639.7	728.5	808.5	841.8
62.5°	544.2	588.6	684.1	768.5	801.8
65°	479.8	528.6	637.5	721.9	755.2
67.5°	422.0	475.3	590.8	675.2	708.5
70°	353.2	419.8	539.7	624.1	657.4
72.5°	288.7	362.0	486.4	568.6	599.7
75°	226.6	308.7	430.9	504.2	519.7
77.5°	168.8	255.4	373.1	404.2	393.1
80°	119.9	204.3	291.0	275.4	282.1
82.5°	77.7	155.5	179.9	204.3	211.0
85°	44.4	91.1	111.1	119.9	124.4
87.5°	20.0	33.3	44.4	44.4	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)