

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: P277104

Luminaire Tested: **24CZ2-75HE-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277104
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: 24CZ2-75HE-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4502.1 lumens
Efficiency: N/A
Efficacy: 74.9 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

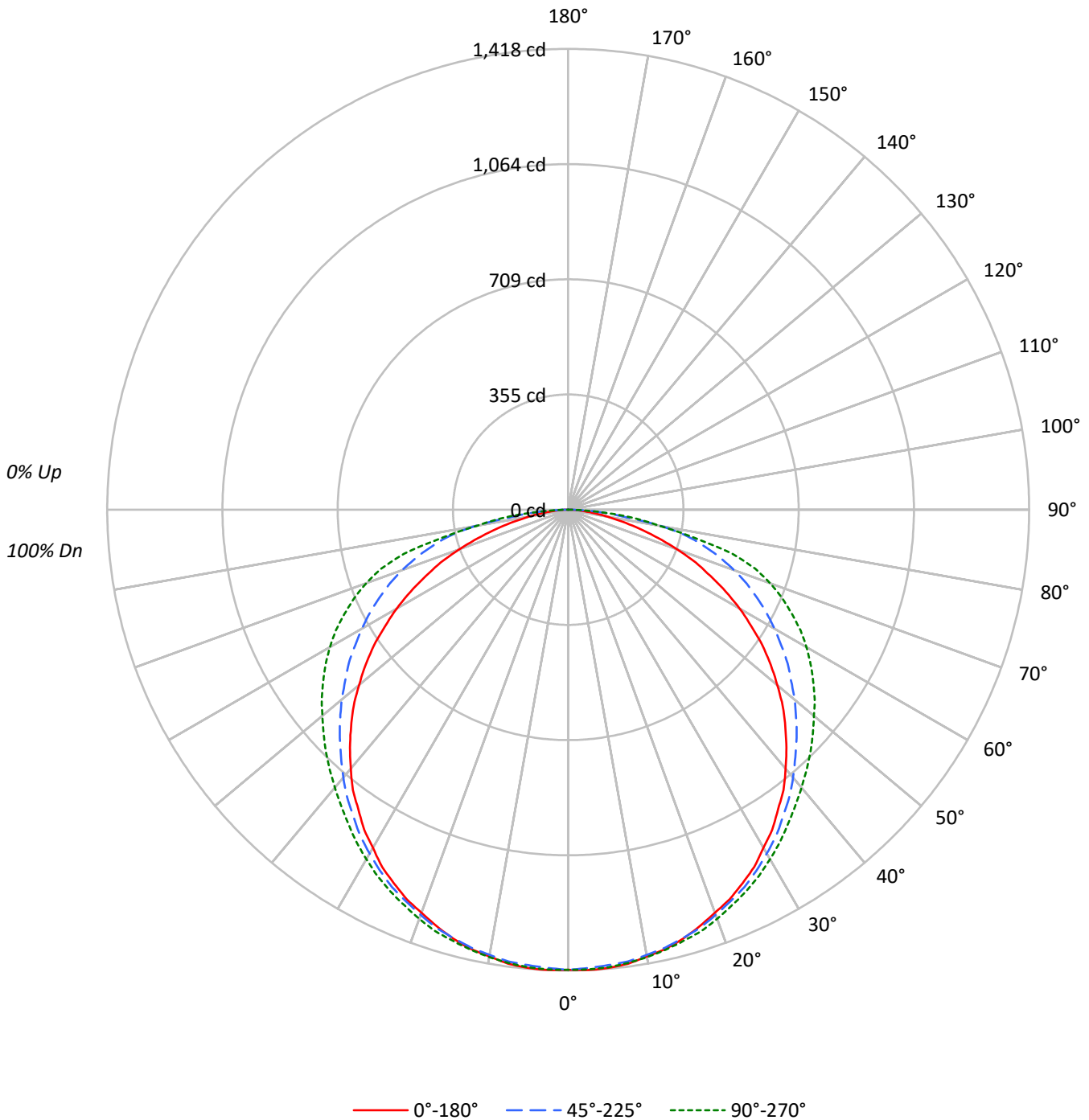
Input Watts (W): 60.078
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1905	1905	1905
5°	1912	1900	1909
10°	1907	1901	1910
15°	1904	1901	1913
20°	1890	1899	1918
25°	1883	1903	1923
30°	1867	1898	1929
35°	1849	1893	1937
40°	1828	1890	1961
45°	1797	1891	2006
50°	1757	1903	2066
55°	1713	1933	2158
60°	1640	1971	2277
65°	1535	2040	2417
70°	1397	2135	2600
75°	1184	2252	2716
80°	934	2266	2197
85°	690	1724	1931



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	3.0
10°-20°	386.5	8.6
20°-30°	591.1	13.1
30°-40°	722.6	16.0
40°-50°	770.1	17.1
50°-60°	736.3	16.4
60°-70°	623.8	13.9
70°-80°	419.2	9.3
80°-90°	118.3	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°	1111.9	24.7
0°-40°	1834.4	40.7
0°-60°	3340.8	74.2
0°-90°	4502.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4502.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1416	1414	1407	1414	1414	135
15°	1367	1367	1364	1376	1373	385
25°	1268	1273	1282	1293	1295	585
35°	1126	1134	1152	1175	1179	705
45°	945	960	994	1036	1054	729
55°	730	757	824	889	920	650
65°	482	532	641	726	759	479
75°	228	310	433	507	522	244
85°	45	92	112	121	125	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1415.8	1415.8	1415.8	1415.8	1415.8
2.5°	1418.0	1418.0	1411.3	1415.8	1415.8
5°	1415.8	1413.5	1406.8	1413.5	1413.5
7.5°	1409.1	1406.8	1402.4	1409.1	1406.8
10°	1395.7	1395.7	1391.2	1397.9	1397.9
12.5°	1384.5	1382.3	1380.0	1389.0	1386.7
15°	1366.6	1366.6	1364.4	1375.6	1373.3
17.5°	1344.3	1346.5	1348.8	1357.7	1359.9
20°	1319.7	1324.2	1326.4	1339.8	1339.8
22.5°	1297.4	1299.7	1304.1	1317.5	1317.5
25°	1268.4	1272.9	1281.8	1293.0	1295.2
27.5°	1239.4	1241.6	1252.8	1268.4	1270.6
30°	1201.4	1208.1	1221.5	1239.4	1241.6
32.5°	1167.9	1174.6	1190.2	1208.1	1212.6
35°	1125.5	1134.4	1152.3	1174.6	1179.1
37.5°	1087.5	1094.2	1116.5	1141.1	1147.8
40°	1040.6	1054.0	1076.3	1105.4	1116.5
42.5°	993.7	1007.1	1033.9	1071.9	1085.3
45°	944.6	960.2	993.7	1036.1	1054.0
47.5°	895.5	913.3	951.3	1000.4	1020.5
50°	839.6	862.0	908.9	964.7	987.0
52.5°	786.0	812.8	864.2	926.7	955.8
55°	730.2	757.0	824.0	888.8	920.0
57.5°	667.7	703.4	777.1	850.8	884.3
60°	609.6	643.1	732.4	812.8	846.3
62.5°	547.1	591.8	687.8	772.6	806.1
65°	482.3	531.5	640.9	725.8	759.2
67.5°	424.3	477.9	594.0	678.9	712.4
70°	355.1	422.1	542.6	627.5	661.0
72.5°	290.3	364.0	489.0	571.7	602.9
75°	227.8	310.4	433.2	506.9	522.5
77.5°	169.7	256.8	375.2	406.4	395.3
80°	120.6	205.4	292.5	276.9	283.6
82.5°	78.2	156.3	180.9	205.4	212.1
85°	44.7	91.6	111.7	120.6	125.1
87.5°	20.1	33.5	44.7	44.7	42.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)