

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: P263613

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263613
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-RDP-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4453.0 lumens
Efficiency: N/A
Efficacy: 74.8 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

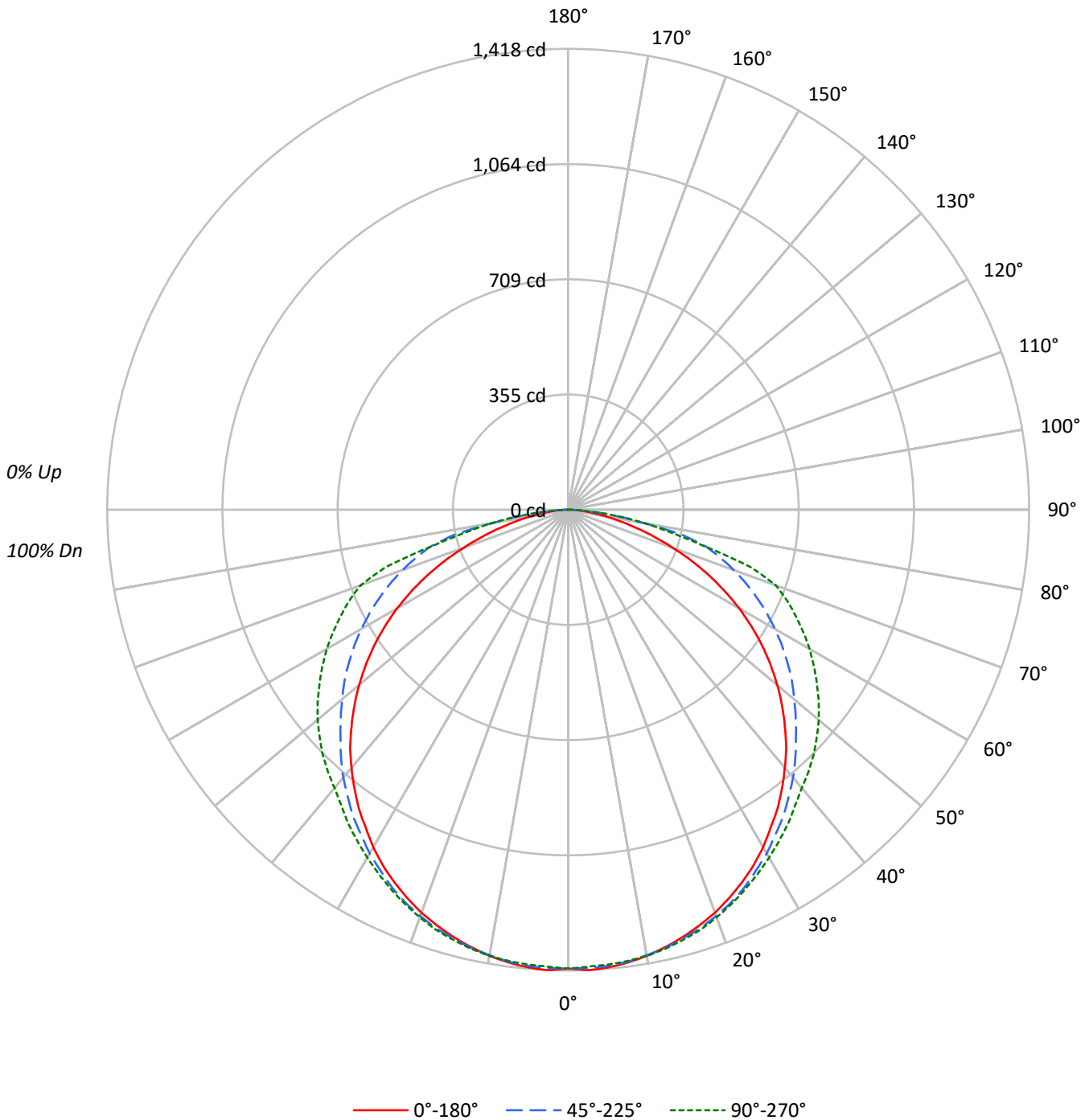
Input Watts (W): 59.513676
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1899	1899	1899
5°	1910	1904	1898
10°	1905	1902	1905
15°	1896	1902	1908
20°	1889	1905	1911
25°	1878	1904	1913
30°	1863	1897	1921
35°	1843	1894	1937
40°	1821	1890	1963
45°	1794	1885	2031
50°	1757	1900	2106
55°	1707	1933	2190
60°	1634	1976	2306
65°	1521	2038	2457
70°	1345	2130	2673
75°	1128	2279	2245
80°	900	1801	1868
85°	710	1218	1116



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	3.0
10°-20°	385.3	8.7
20°-30°	588.6	13.2
30°-40°	719.6	16.2
40°-50°	770.2	17.3
50°-60°	738.8	16.6
60°-70°	623.8	14.0
70°-80°	398.7	9.0
80°-90°	94.3	2.1
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°	1107.8	24.9
0°-40°	1827.3	41.0
0°-60°	3336.3	74.9
0°-90°	4453.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4453.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1414	1405	1410	1407	1405	134
15°	1361	1357	1366	1370	1370	384
25°	1265	1263	1282	1287	1289	583
35°	1122	1131	1153	1168	1179	702
45°	943	958	991	1037	1068	727
55°	728	752	824	899	934	649
65°	478	524	640	730	772	471
75°	217	309	438	447	432	234
85°	46	77	79	77	72	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.7	1411.7	1411.7	1411.7	1411.7
2.5°	1418.2	1409.5	1411.7	1411.7	1407.3
5°	1413.9	1405.1	1409.5	1407.3	1405.1
7.5°	1405.1	1398.5	1402.9	1402.9	1400.7
10°	1394.1	1387.5	1391.9	1394.1	1394.1
12.5°	1378.8	1374.4	1381.0	1381.0	1383.2
15°	1361.2	1356.9	1365.6	1370.0	1370.0
17.5°	1341.5	1339.3	1350.3	1352.5	1354.7
20°	1319.6	1317.4	1330.6	1330.6	1334.9
22.5°	1293.3	1291.1	1308.6	1308.6	1313.0
25°	1264.8	1262.6	1282.3	1286.7	1288.9
27.5°	1234.1	1231.9	1251.6	1258.2	1262.6
30°	1199.0	1199.0	1221.0	1229.7	1236.3
32.5°	1159.6	1166.2	1185.9	1199.0	1207.8
35°	1122.3	1131.1	1153.0	1168.3	1179.3
37.5°	1080.7	1089.4	1113.5	1133.3	1146.4
40°	1036.8	1047.8	1076.3	1098.2	1117.9
42.5°	993.0	1003.9	1034.6	1067.5	1093.8
45°	942.6	957.9	990.8	1036.8	1067.5
47.5°	892.2	907.5	949.1	1006.1	1036.8
50°	839.5	857.1	907.5	973.3	1006.1
52.5°	784.7	804.5	868.0	938.2	971.1
55°	727.8	751.9	824.2	898.7	933.8
57.5°	668.6	694.9	780.4	859.3	896.5
60°	607.2	640.1	734.3	817.6	857.1
62.5°	543.6	583.1	688.3	773.8	815.4
65°	477.9	523.9	640.1	729.9	771.6
67.5°	409.9	471.3	591.8	686.1	727.8
70°	342.0	414.3	541.4	637.9	679.5
72.5°	278.4	361.7	491.0	580.9	589.7
75°	217.0	309.1	438.4	447.2	431.8
77.5°	162.2	256.5	361.7	322.2	320.0
80°	116.2	206.0	232.4	238.9	241.1
82.5°	76.7	155.6	151.2	155.6	153.4
85°	46.0	76.7	78.9	76.7	72.3
87.5°	21.9	28.5	21.9	19.7	17.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)