

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: P261305

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261305
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-S-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5000.0 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

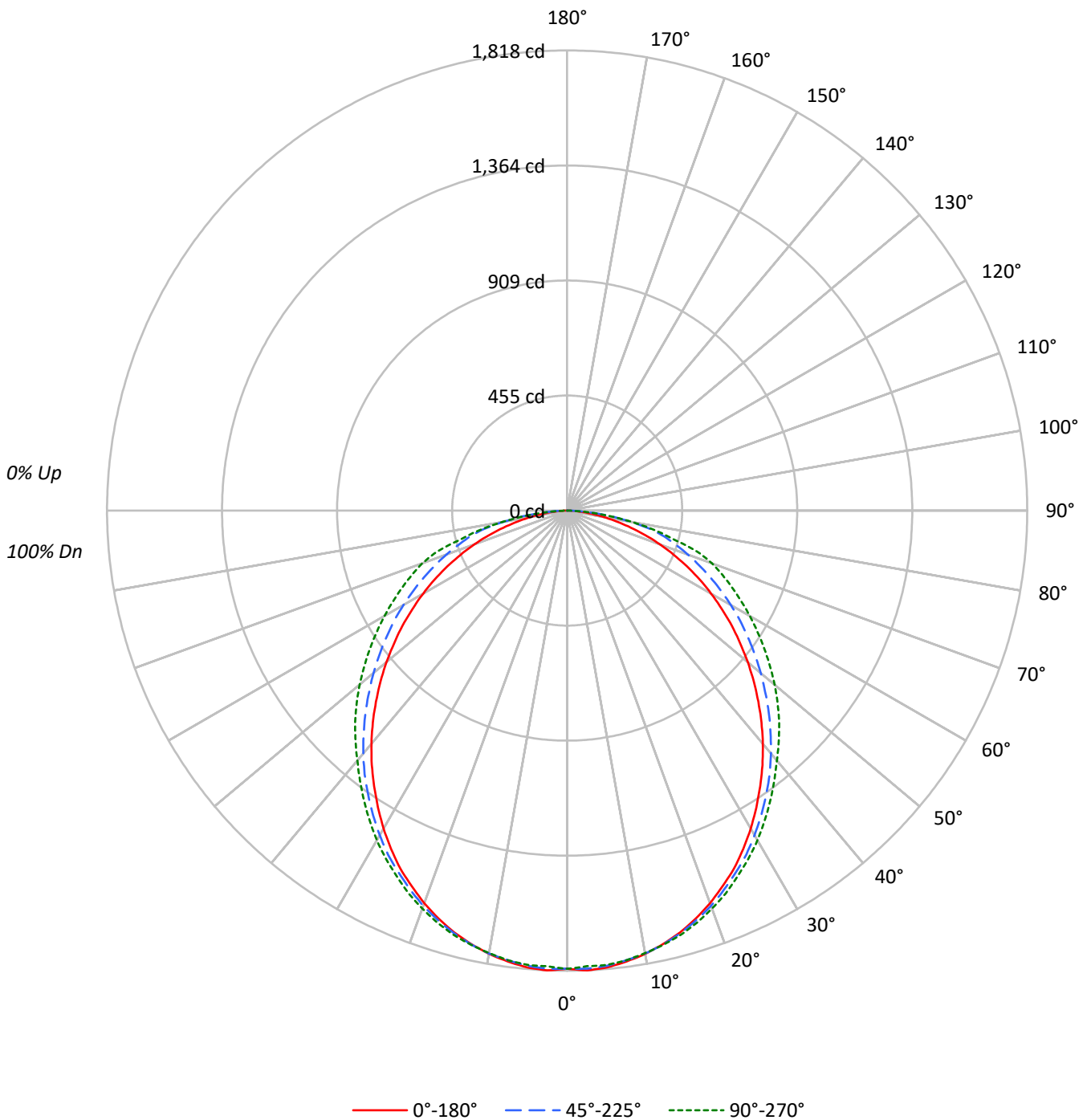
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2435	2435	2435
5°	2447	2438	2434
10°	2430	2428	2425
15°	2403	2408	2417
20°	2363	2380	2396
25°	2317	2341	2366
30°	2254	2300	2337
35°	2183	2252	2298
40°	2113	2200	2265
45°	2032	2143	2254
50°	1950	2089	2239
55°	1865	2045	2232
60°	1769	2010	2243
65°	1663	1986	2288
70°	1531	1996	2395
75°	1358	2067	2231
80°	1134	1960	2011
85°	848	1567	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.1	3.4
10°-20°	486.7	9.7
20°-30°	725.3	14.5
30°-40°	853.8	17.1
40°-50°	867.7	17.4
50°-60°	780.1	15.6
60°-70°	616.3	12.3
70°-80°	391.0	7.8
80°-90°	107.9	2.2
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°	1383.2	27.7
0°-40°	2237.0	44.7
0°-60°	3884.8	77.7
0°-90°	5000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1810	1810	1810	1810	1810	
5°	1812	1797	1805	1802	1802	172
15°	1725	1717	1729	1734	1735	486
25°	1560	1559	1577	1587	1594	718
35°	1329	1338	1371	1386	1399	832
45°	1068	1083	1126	1160	1184	824
55°	795	815	872	928	952	710
65°	522	549	624	692	719	517
75°	261	306	398	433	429	278
85°	55	95	102	93	93	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	1818.4	1805.1	1811.8	1808.4	1801.8
5°	1811.8	1796.8	1805.1	1801.8	1801.8
7.5°	1796.8	1785.1	1791.8	1790.1	1791.8
10°	1778.5	1766.8	1776.8	1776.8	1775.2
12.5°	1753.5	1743.5	1755.2	1755.2	1756.9
15°	1725.2	1716.9	1728.6	1733.6	1735.2
17.5°	1690.3	1682.0	1697.0	1702.0	1706.9
20°	1650.4	1647.1	1662.0	1667.0	1673.7
22.5°	1605.5	1605.5	1620.4	1627.1	1637.1
25°	1560.5	1558.9	1577.2	1587.2	1593.8
27.5°	1507.3	1509.0	1532.3	1542.2	1550.6
30°	1450.7	1454.1	1480.7	1492.3	1504.0
32.5°	1390.8	1397.5	1427.4	1440.8	1452.4
35°	1329.3	1337.6	1370.9	1385.9	1399.2
37.5°	1267.7	1279.4	1314.3	1329.3	1344.3
40°	1202.8	1212.8	1252.8	1271.1	1289.4
42.5°	1136.3	1149.6	1189.5	1216.2	1237.8
45°	1068.1	1083.1	1126.3	1159.6	1184.5
47.5°	999.9	1019.8	1061.4	1106.4	1128.0
50°	931.7	951.6	998.2	1048.1	1069.8
52.5°	861.8	881.8	935.0	986.6	1009.9
55°	795.2	815.2	871.8	928.3	951.6
57.5°	725.4	747.0	810.2	868.4	891.7
60°	657.2	678.8	747.0	808.6	833.5
62.5°	590.6	613.9	685.4	750.3	775.3
65°	522.4	549.0	623.9	692.1	718.7
67.5°	455.9	485.8	564.0	635.5	663.8
70°	389.3	424.2	507.4	580.6	608.9
72.5°	324.4	362.7	450.9	524.1	539.0
75°	261.2	306.1	397.6	432.6	429.2
77.5°	201.3	251.2	337.7	344.4	354.4
80°	146.4	201.3	252.9	266.2	259.5
82.5°	96.5	151.4	181.3	174.7	173.0
85°	54.9	94.8	101.5	93.2	93.2
87.5°	23.3	38.3	33.3	25.0	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)