

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: P#

Luminaire Tested: **24CZ-LD5-55SE-S-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-LD5-55SE-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

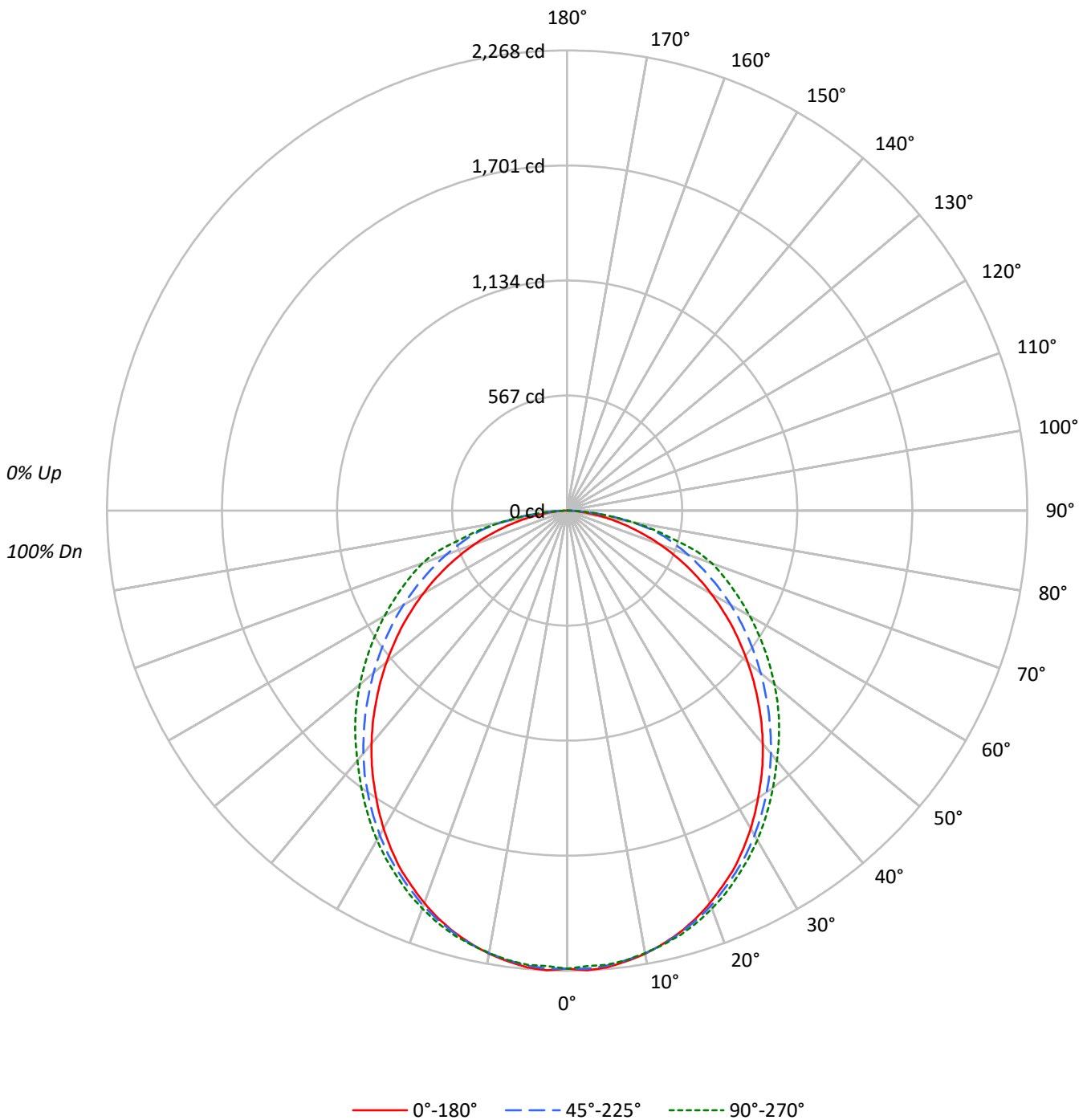
Lumens per Lamp: N/A
Luminaire Lumens: 6235.9 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 54.69
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	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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53		64	58	52		62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46		57	51	45		55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3037	3037	3037
5°	3045	3027	3022
10°	3017	3000	2998
15°	2977	2961	2975
20°	2921	2912	2935
25°	2856	2850	2884
30°	2771	2784	2832
35°	2676	2708	2769
40°	2581	2627	2711
45°	2473	2538	2677
50°	2362	2451	2636
55°	2246	2371	2599
60°	2114	2296	2574
65°	1969	2224	2577
70°	1787	2173	2627
75°	1549	2152	2345
80°	1239	1879	1954
85°	822	1217	1141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.4	3.4
10°-20°	607.0	9.7
20°-30°	904.6	14.5
30°-40°	1064.9	17.1
40°-50°	1082.2	17.4
50°-60°	972.9	15.6
60°-70°	768.6	12.3
70°-80°	487.6	7.8
80°-90°	134.6	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°	1725.1	27.7
0°-40°	2790.0	44.7
0°-60°	4845.1	77.7
0°-90°	6235.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6235.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2260	2241	2251	2247	2247	214
15°	2152	2141	2156	2162	2164	606
25°	1946	1944	1967	1980	1988	895
35°	1658	1668	1710	1728	1745	1037
45°	1332	1351	1405	1446	1477	1028
55°	992	1017	1087	1158	1187	886
65°	652	685	778	863	896	645
75°	326	382	496	540	535	347
85°	68	118	127	116	116	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2257.5	2257.5	2257.5	2257.5	2257.5
2.5°	2267.9	2251.3	2259.6	2255.4	2247.1
5°	2259.6	2240.9	2251.3	2247.1	2247.1
7.5°	2240.9	2226.4	2234.7	2232.6	2234.7
10°	2218.1	2203.6	2216.0	2216.0	2213.9
12.5°	2187.0	2174.5	2189.0	2189.0	2191.1
15°	2151.7	2141.3	2155.8	2162.1	2164.1
17.5°	2108.1	2097.7	2116.4	2122.6	2128.9
20°	2058.3	2054.2	2072.8	2079.1	2087.4
22.5°	2002.3	2002.3	2021.0	2029.3	2041.7
25°	1946.3	1944.2	1967.0	1979.5	1987.8
27.5°	1879.9	1882.0	1911.0	1923.4	1933.8
30°	1809.3	1813.5	1846.7	1861.2	1875.7
32.5°	1734.6	1742.9	1780.3	1796.9	1811.4
35°	1657.9	1668.2	1709.7	1728.4	1745.0
37.5°	1581.1	1595.6	1639.2	1657.9	1676.5
40°	1500.2	1512.6	1562.4	1585.2	1608.1
42.5°	1417.2	1433.8	1483.6	1516.8	1543.7
45°	1332.1	1350.8	1404.7	1446.2	1477.3
47.5°	1247.0	1271.9	1323.8	1379.8	1406.8
50°	1162.0	1186.9	1245.0	1307.2	1334.2
52.5°	1074.8	1099.7	1166.1	1230.4	1259.5
55°	991.8	1016.7	1087.3	1157.8	1186.9
57.5°	904.7	931.6	1010.5	1083.1	1112.2
60°	819.6	846.6	931.6	1008.4	1039.5
62.5°	736.6	765.6	854.9	935.8	966.9
65°	651.5	684.7	778.1	863.2	896.4
67.5°	568.5	605.9	703.4	792.6	827.9
70°	485.5	529.1	632.8	724.1	759.4
72.5°	404.6	452.3	562.3	653.6	672.3
75°	325.8	381.8	495.9	539.5	535.3
77.5°	251.1	313.3	421.2	429.5	442.0
80°	182.6	251.1	315.4	332.0	323.7
82.5°	120.3	188.8	226.2	217.9	215.8
85°	68.5	118.3	126.6	116.2	116.2
87.5°	29.0	47.7	41.5	31.1	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)