

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-LD5-60SE-S-UNV-L835-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-LD5-60SE-S-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

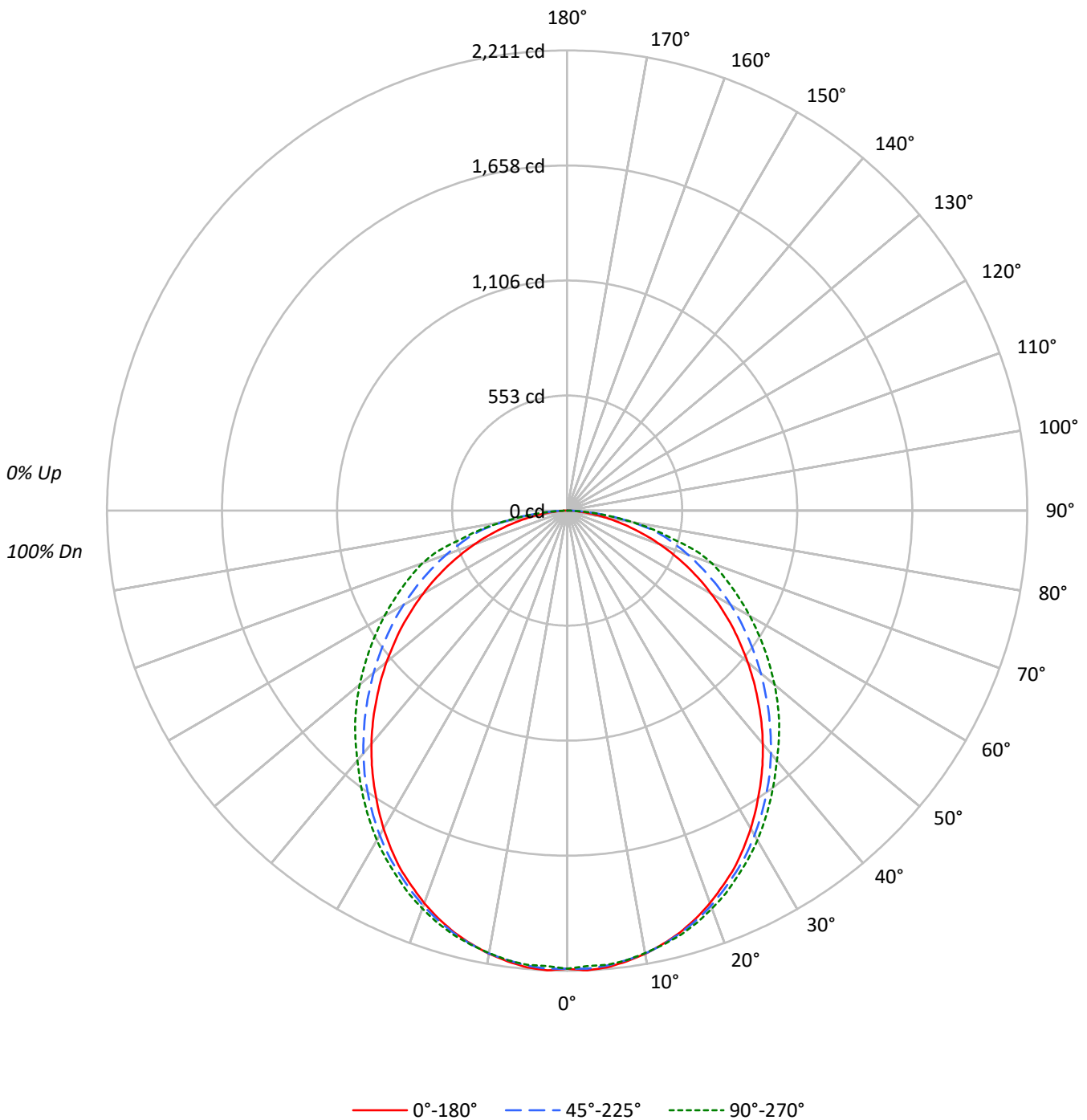
Lumens per Lamp: N/A
Luminaire Lumens: 6080.2 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): 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°	2962	2962	2962
5°	2969	2951	2946
10°	2942	2925	2924
15°	2903	2887	2900
20°	2848	2839	2862
25°	2785	2779	2812
30°	2702	2714	2762
35°	2609	2640	2700
40°	2516	2562	2643
45°	2411	2475	2610
50°	2303	2390	2570
55°	2190	2312	2534
60°	2061	2239	2510
65°	1920	2169	2513
70°	1743	2119	2561
75°	1510	2098	2287
80°	1208	1832	1905
85°	802	1186	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.1	3.4
10°-20°	591.9	9.7
20°-30°	882.0	14.5
30°-40°	1038.3	17.1
40°-50°	1055.1	17.4
50°-60°	948.7	15.6
60°-70°	749.4	12.3
70°-80°	475.5	7.8
80°-90°	131.2	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°	1682.0	27.7
0°-40°	2720.3	44.7
0°-60°	4724.1	77.7
0°-90°	6080.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6080.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2203	2185	2195	2191	2191	209
15°	2098	2088	2102	2108	2110	591
25°	1898	1896	1918	1930	1938	873
35°	1616	1627	1667	1685	1701	1011
45°	1299	1317	1370	1410	1440	1002
55°	967	991	1060	1129	1157	864
65°	635	668	759	842	874	629
75°	318	372	484	526	522	338
85°	67	115	123	113	113	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.2	2201.2	2201.2	2201.2	2201.2
2.5°	2211.3	2195.1	2203.2	2199.1	2191.0
5°	2203.2	2185.0	2195.1	2191.0	2191.0
7.5°	2185.0	2170.8	2178.9	2176.9	2178.9
10°	2162.7	2148.6	2160.7	2160.7	2158.7
12.5°	2132.4	2120.2	2134.4	2134.4	2136.4
15°	2098.0	2087.9	2102.0	2108.1	2110.1
17.5°	2055.5	2045.4	2063.6	2069.6	2075.7
20°	2006.9	2002.9	2021.1	2027.2	2035.3
22.5°	1952.3	1952.3	1970.5	1978.6	1990.7
25°	1897.7	1895.7	1917.9	1930.1	1938.1
27.5°	1832.9	1835.0	1863.3	1875.4	1885.5
30°	1764.2	1768.2	1800.6	1814.7	1828.9
32.5°	1691.3	1699.4	1735.8	1752.0	1766.2
35°	1616.5	1626.6	1667.0	1685.3	1701.4
37.5°	1541.6	1555.8	1598.3	1616.5	1634.7
40°	1462.7	1474.9	1523.4	1545.7	1567.9
42.5°	1381.8	1398.0	1446.5	1478.9	1505.2
45°	1298.8	1317.0	1369.7	1410.1	1440.5
47.5°	1215.9	1240.2	1290.7	1345.4	1371.7
50°	1132.9	1157.2	1213.9	1274.6	1300.9
52.5°	1048.0	1072.3	1137.0	1199.7	1228.0
55°	967.1	991.3	1060.1	1128.9	1157.2
57.5°	882.1	908.4	985.3	1056.1	1084.4
60°	799.1	825.4	908.4	983.2	1013.6
62.5°	718.2	746.5	833.5	912.4	942.8
65°	635.3	667.6	758.7	841.6	874.0
67.5°	554.3	590.8	685.8	772.8	807.2
70°	473.4	515.9	617.1	706.1	740.5
72.5°	394.5	441.0	548.3	637.3	655.5
75°	317.6	372.3	483.5	526.0	522.0
77.5°	244.8	305.5	410.7	418.8	430.9
80°	178.0	244.8	307.5	323.7	315.6
82.5°	117.3	184.1	220.5	212.4	210.4
85°	66.8	115.3	123.4	113.3	113.3
87.5°	28.3	46.5	40.5	30.3	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)