

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-LD5-60-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 (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

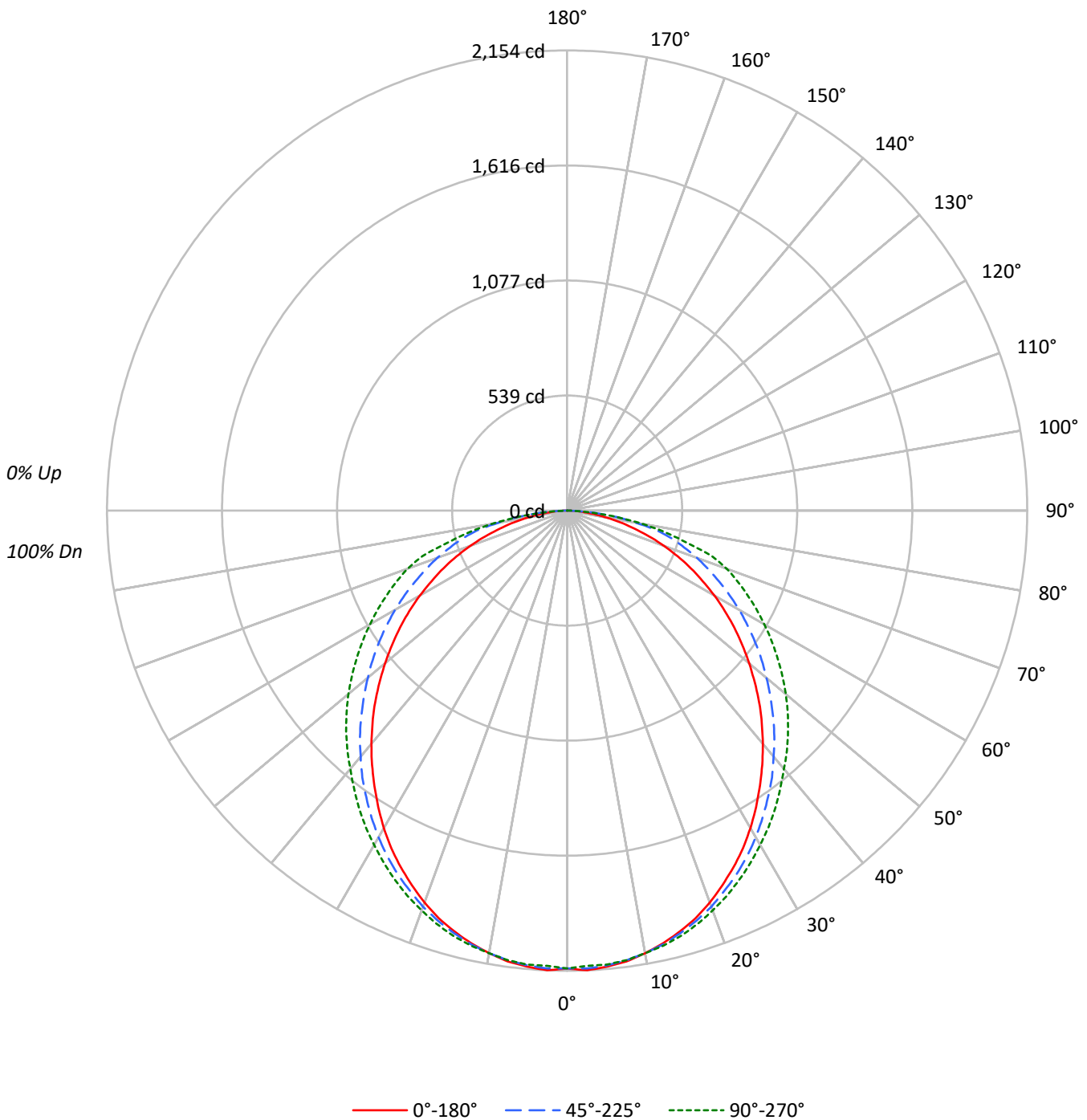
Lumens per Lamp: N/A
Luminaire Lumens: 6099.0 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 52.17
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	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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	33					33			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2884	2884	2884
5°	2888	2873	2868
10°	2862	2848	2849
15°	2822	2813	2832
20°	2770	2772	2801
25°	2704	2720	2766
30°	2628	2662	2729
35°	2539	2596	2697
40°	2452	2529	2662
45°	2361	2463	2651
50°	2261	2398	2640
55°	2162	2344	2630
60°	2055	2291	2641
65°	1931	2242	2673
70°	1772	2216	2748
75°	1549	2206	2527
80°	1267	1940	2142
85°	872	1256	1223



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.7	3.3
10°-20°	576.9	9.5
20°-30°	862.3	14.1
30°-40°	1022.5	16.8
40°-50°	1051.5	17.2
50°-60°	961.9	15.8
60°-70°	775.8	12.7
70°-80°	503.7	8.3
80°-90°	141.7	2.3
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°	1641.9	26.9
0°-40°	2664.4	43.7
0°-60°	4677.8	76.7
0°-90°	6099.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6099.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2143	2129	2137	2133	2133	203
15°	2040	2029	2048	2056	2060	575
25°	1842	1842	1878	1892	1907	848
35°	1573	1587	1639	1672	1699	984
45°	1272	1295	1363	1425	1463	980
55°	954	986	1075	1160	1201	854
65°	639	676	784	886	930	632
75°	326	386	508	571	577	347
85°	73	120	131	129	124	87
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2143.2	2143.2	2143.2	2143.2	2143.2
2.5°	2153.6	2137.0	2145.3	2141.2	2132.9
5°	2143.2	2128.7	2137.0	2132.9	2132.9
7.5°	2128.7	2114.2	2122.5	2122.5	2122.5
10°	2103.8	2091.4	2103.8	2103.8	2103.8
12.5°	2074.8	2064.4	2078.9	2081.0	2085.2
15°	2039.5	2029.1	2047.8	2056.1	2060.3
17.5°	2000.1	1991.8	2012.5	2022.9	2029.1
20°	1952.4	1946.1	1973.1	1983.5	1991.8
22.5°	1898.4	1898.4	1925.4	1937.8	1952.4
25°	1842.4	1842.4	1877.7	1892.2	1906.7
27.5°	1782.2	1784.3	1823.7	1844.5	1859.0
30°	1715.8	1724.1	1765.6	1790.5	1807.1
32.5°	1645.3	1655.7	1703.4	1734.5	1755.3
35°	1572.7	1587.2	1639.1	1672.3	1699.2
37.5°	1500.1	1518.7	1574.8	1612.1	1639.1
40°	1425.4	1446.1	1504.2	1547.8	1578.9
42.5°	1348.6	1371.4	1435.7	1485.5	1522.9
45°	1271.8	1294.7	1363.1	1425.4	1462.7
47.5°	1190.9	1217.9	1290.5	1363.1	1400.5
50°	1112.1	1141.1	1217.9	1296.7	1336.2
52.5°	1033.2	1066.4	1147.4	1230.3	1269.8
55°	954.4	985.5	1074.7	1159.8	1201.3
57.5°	875.6	908.8	1002.1	1091.3	1134.9
60°	796.7	832.0	929.5	1022.9	1066.4
62.5°	715.8	753.1	856.9	954.4	998.0
65°	639.0	676.4	784.3	885.9	929.5
67.5°	560.2	601.7	713.7	817.5	863.1
70°	481.3	527.0	645.3	749.0	794.6
72.5°	402.5	454.4	574.7	678.5	711.6
75°	325.7	385.9	508.3	570.6	576.8
77.5°	255.2	317.4	433.6	458.5	471.0
80°	186.7	255.2	325.7	356.9	354.8
82.5°	124.5	195.0	234.5	238.6	234.5
85°	72.6	120.3	130.7	128.6	124.5
87.5°	31.1	47.7	41.5	35.3	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)