

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-LD5-65-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-LD5-65-S-UNV-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6710.6 lumens
Efficiency: N/A
Efficacy: 116.4 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

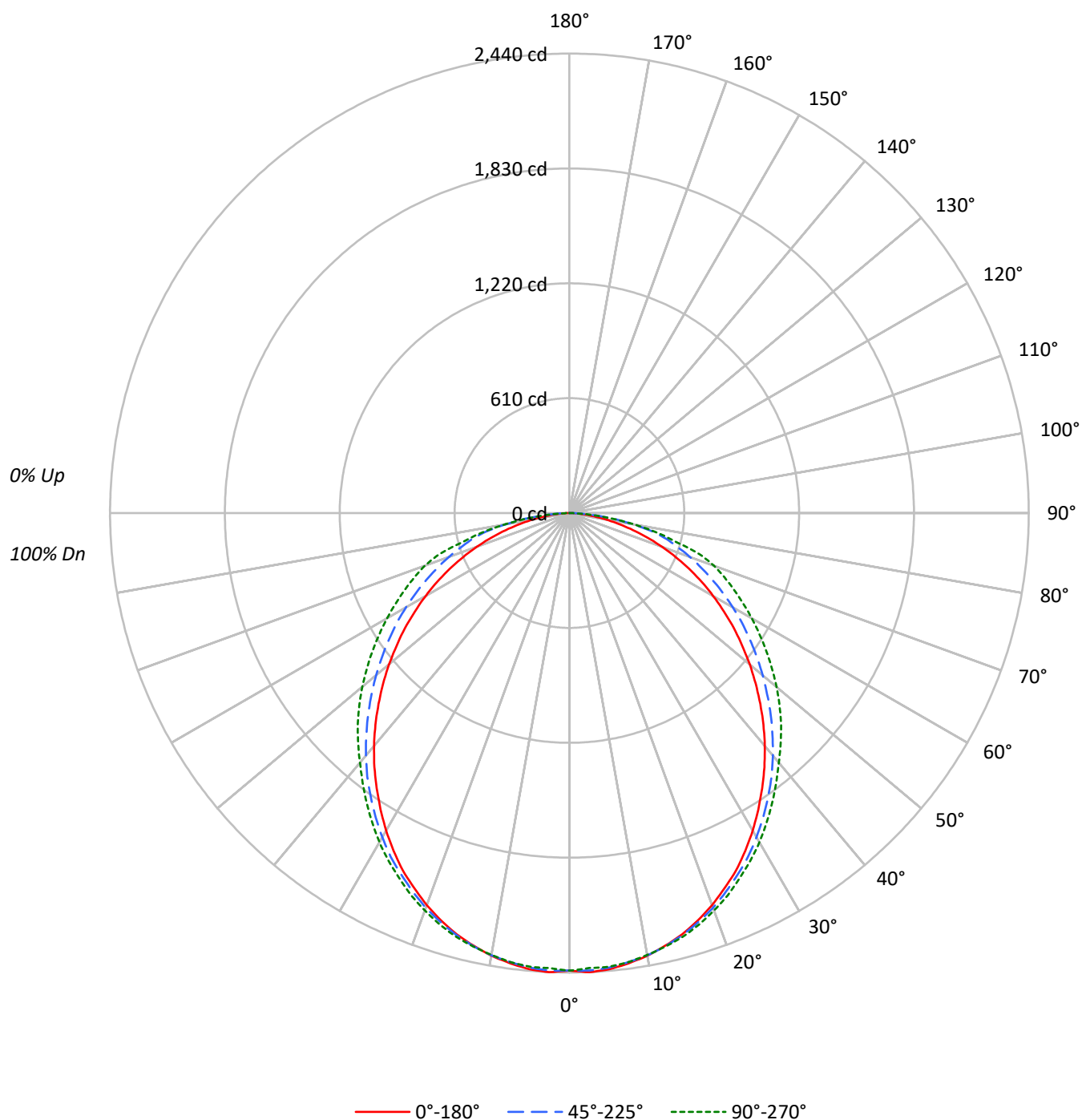
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	3269	3269	3269
5°	3277	3257	3252
10°	3247	3228	3227
15°	3204	3186	3201
20°	3143	3133	3159
25°	3073	3067	3103
30°	2982	2996	3048
35°	2880	2914	2980
40°	2777	2827	2917
45°	2661	2731	2881
50°	2542	2638	2836
55°	2417	2551	2796
60°	2275	2471	2770
65°	2119	2393	2774
70°	1923	2338	2827
75°	1667	2316	2524
80°	1333	2022	2103
85°	885	1309	1228



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.7	3.4
10°-20°	653.2	9.7
20°-30°	973.5	14.5
30°-40°	1145.9	17.1
40°-50°	1164.5	17.4
50°-60°	1047.0	15.6
60°-70°	827.1	12.3
70°-80°	524.8	7.8
80°-90°	144.8	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°	1856.4	27.7
0°-40°	3002.3	44.7
0°-60°	5213.9	77.7
0°-90°	6710.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6710.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2429	2429	2429	2429	2429	
5°	2432	2412	2423	2418	2418	231
15°	2316	2304	2320	2327	2329	652
25°	2094	2092	2117	2130	2139	963
35°	1784	1795	1840	1860	1878	1116
45°	1434	1454	1512	1556	1590	1106
55°	1067	1094	1170	1246	1277	953
65°	701	737	837	929	965	695
75°	351	411	534	580	576	373
85°	74	127	136	125	125	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2429.4	2429.4	2429.4	2429.4	2429.4
2.5°	2440.5	2422.7	2431.6	2427.1	2418.2
5°	2431.6	2411.5	2422.7	2418.2	2418.2
7.5°	2411.5	2395.9	2404.8	2402.6	2404.8
10°	2386.9	2371.3	2384.7	2384.7	2382.5
12.5°	2353.4	2340.0	2355.7	2355.7	2357.9
15°	2315.5	2304.3	2319.9	2326.6	2328.9
17.5°	2268.6	2257.4	2277.5	2284.2	2290.9
20°	2215.0	2210.5	2230.6	2237.3	2246.3
22.5°	2154.7	2154.7	2174.8	2183.7	2197.1
25°	2094.4	2092.2	2116.8	2130.1	2139.1
27.5°	2023.0	2025.2	2056.5	2069.9	2081.0
30°	1947.1	1951.5	1987.2	2002.9	2018.5
32.5°	1866.7	1875.6	1915.8	1933.7	1949.3
35°	1784.1	1795.2	1839.9	1860.0	1877.8
37.5°	1701.4	1717.1	1764.0	1784.1	1804.2
40°	1614.4	1627.8	1681.3	1705.9	1730.5
42.5°	1525.0	1542.9	1596.5	1632.2	1661.2
45°	1433.5	1453.6	1511.6	1556.3	1589.8
47.5°	1341.9	1368.7	1424.6	1484.9	1513.9
50°	1250.4	1277.2	1339.7	1406.7	1435.7
52.5°	1156.6	1183.4	1254.9	1324.1	1355.3
55°	1067.3	1094.1	1170.0	1245.9	1277.2
57.5°	973.5	1002.6	1087.4	1165.6	1196.8
60°	882.0	911.0	1002.6	1085.2	1118.7
62.5°	792.7	823.9	919.9	1007.0	1040.5
65°	701.1	736.8	837.3	928.9	964.6
67.5°	611.8	652.0	756.9	853.0	890.9
70°	522.5	569.4	681.0	779.3	817.2
72.5°	435.4	486.8	605.1	703.4	723.4
75°	350.6	410.8	533.7	580.5	576.1
77.5°	270.2	337.2	453.3	462.2	475.6
80°	196.5	270.2	339.4	357.3	348.3
82.5°	129.5	203.2	243.4	234.5	232.2
85°	73.7	127.3	136.2	125.0	125.0
87.5°	31.3	51.4	44.7	33.5	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)