

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-L840-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-L840-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6844.8 lumens
Efficiency: N/A
Efficacy: 118.8 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

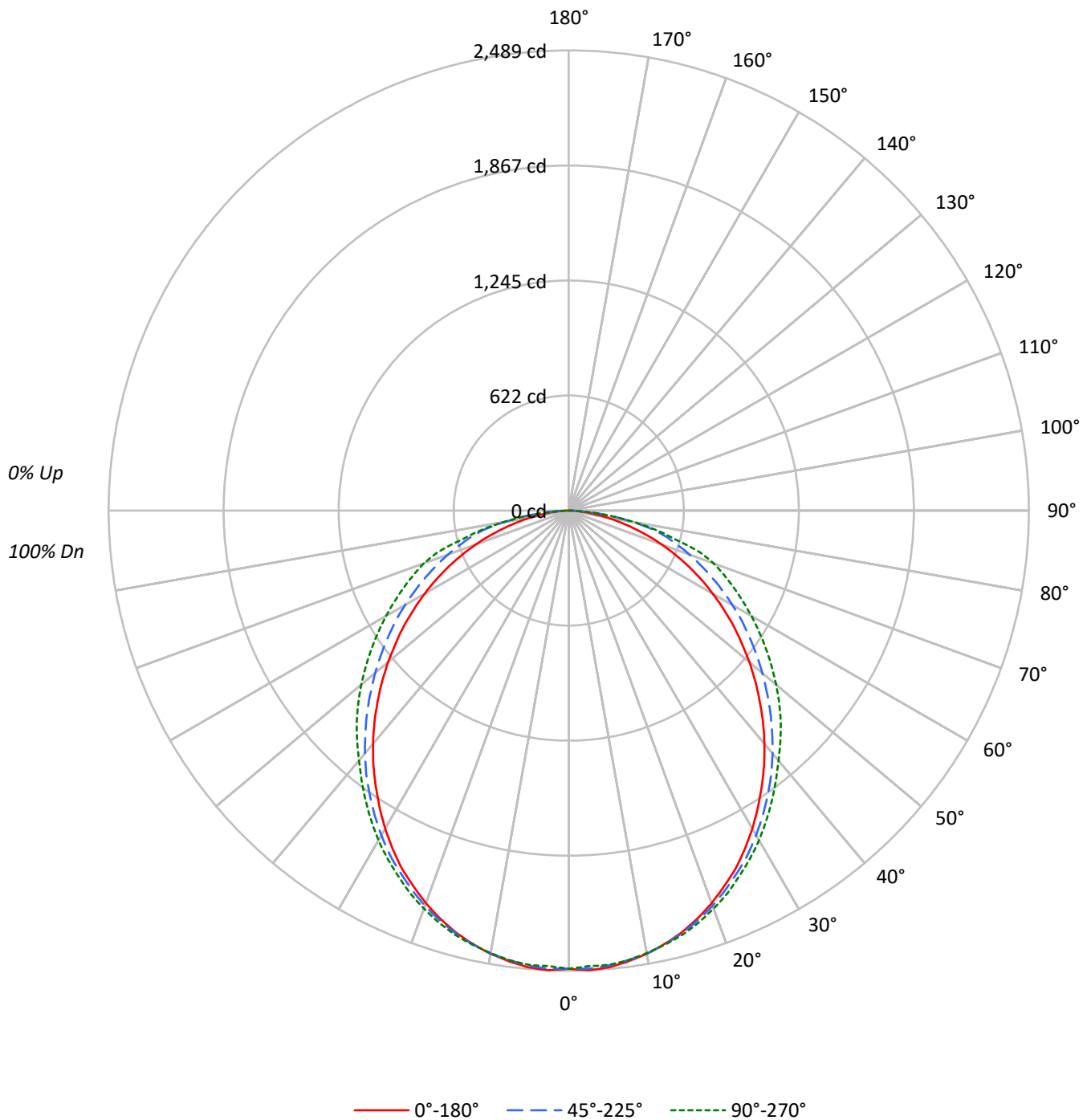
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3334	3334	3334
5°	3343	3322	3317
10°	3312	3292	3291
15°	3268	3250	3265
20°	3206	3196	3222
25°	3135	3128	3165
30°	3042	3056	3109
35°	2938	2972	3040
40°	2833	2884	2975
45°	2714	2786	2939
50°	2592	2690	2893
55°	2466	2602	2852
60°	2320	2520	2826
65°	2161	2442	2829
70°	1962	2385	2883
75°	1700	2362	2574
80°	1360	2062	2145
85°	903	1335	1253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.3	3.4
10°-20°	666.3	9.7
20°-30°	993.0	14.5
30°-40°	1168.9	17.1
40°-50°	1187.8	17.4
50°-60°	1067.9	15.6
60°-70°	843.7	12.3
70°-80°	535.2	7.8
80°-90°	147.7	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°	1893.5	27.7
0°-40°	3062.4	44.7
0°-60°	5318.2	77.7
0°-90°	6844.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6844.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2478	2478	2478	2478	2478	
5°	2480	2460	2471	2467	2467	235
15°	2362	2350	2366	2373	2376	665
25°	2136	2134	2159	2173	2182	982
35°	1820	1831	1877	1897	1915	1138
45°	1462	1483	1542	1587	1622	1128
55°	1089	1116	1193	1271	1303	972
65°	715	752	854	947	984	708
75°	358	419	544	592	588	381
85°	75	130	139	128	128	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2477.9	2477.9	2477.9	2477.9	2477.9
2.5°	2489.3	2471.1	2480.2	2475.7	2466.6
5°	2480.2	2459.7	2471.1	2466.6	2466.6
7.5°	2459.7	2443.8	2452.9	2450.6	2452.9
10°	2434.7	2418.7	2432.4	2432.4	2430.1
12.5°	2400.5	2386.8	2402.8	2402.8	2405.1
15°	2361.8	2350.4	2366.3	2373.2	2375.5
17.5°	2314.0	2302.6	2323.1	2329.9	2336.7
20°	2259.3	2254.7	2275.2	2282.1	2291.2
22.5°	2197.8	2197.8	2218.3	2227.4	2241.1
25°	2136.3	2134.0	2159.1	2172.8	2181.9
27.5°	2063.4	2065.7	2097.6	2111.3	2122.6
30°	1986.0	1990.6	2027.0	2042.9	2058.9
32.5°	1904.0	1913.1	1954.1	1972.3	1988.3
35°	1819.7	1831.1	1876.7	1897.2	1915.4
37.5°	1735.5	1751.4	1799.2	1819.7	1840.2
40°	1646.6	1660.3	1715.0	1740.0	1765.1
42.5°	1555.5	1573.8	1628.4	1664.9	1694.5
45°	1462.2	1482.7	1541.9	1587.4	1621.6
47.5°	1368.8	1396.1	1453.1	1514.6	1544.2
50°	1275.4	1302.7	1366.5	1434.8	1464.4
52.5°	1179.8	1207.1	1280.0	1350.6	1382.5
55°	1088.7	1116.0	1193.4	1270.9	1302.7
57.5°	993.0	1022.6	1109.2	1188.9	1220.8
60°	899.6	929.2	1022.6	1106.9	1141.0
62.5°	808.5	840.4	938.3	1027.2	1061.3
65°	715.1	751.6	854.1	947.4	983.9
67.5°	624.0	665.0	772.1	870.0	908.7
70°	532.9	580.8	694.6	794.9	833.6
72.5°	444.1	496.5	617.2	717.4	737.9
75°	357.6	419.1	544.3	592.2	587.6
77.5°	275.6	343.9	462.3	471.4	485.1
80°	200.4	275.6	346.2	364.4	355.3
82.5°	132.1	207.3	248.2	239.1	236.9
85°	75.2	129.8	138.9	127.5	127.5
87.5°	31.9	52.4	45.6	34.2	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)