

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: P260587

Luminaire Tested: **24CZ-LD5-65-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260587
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6177.0 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

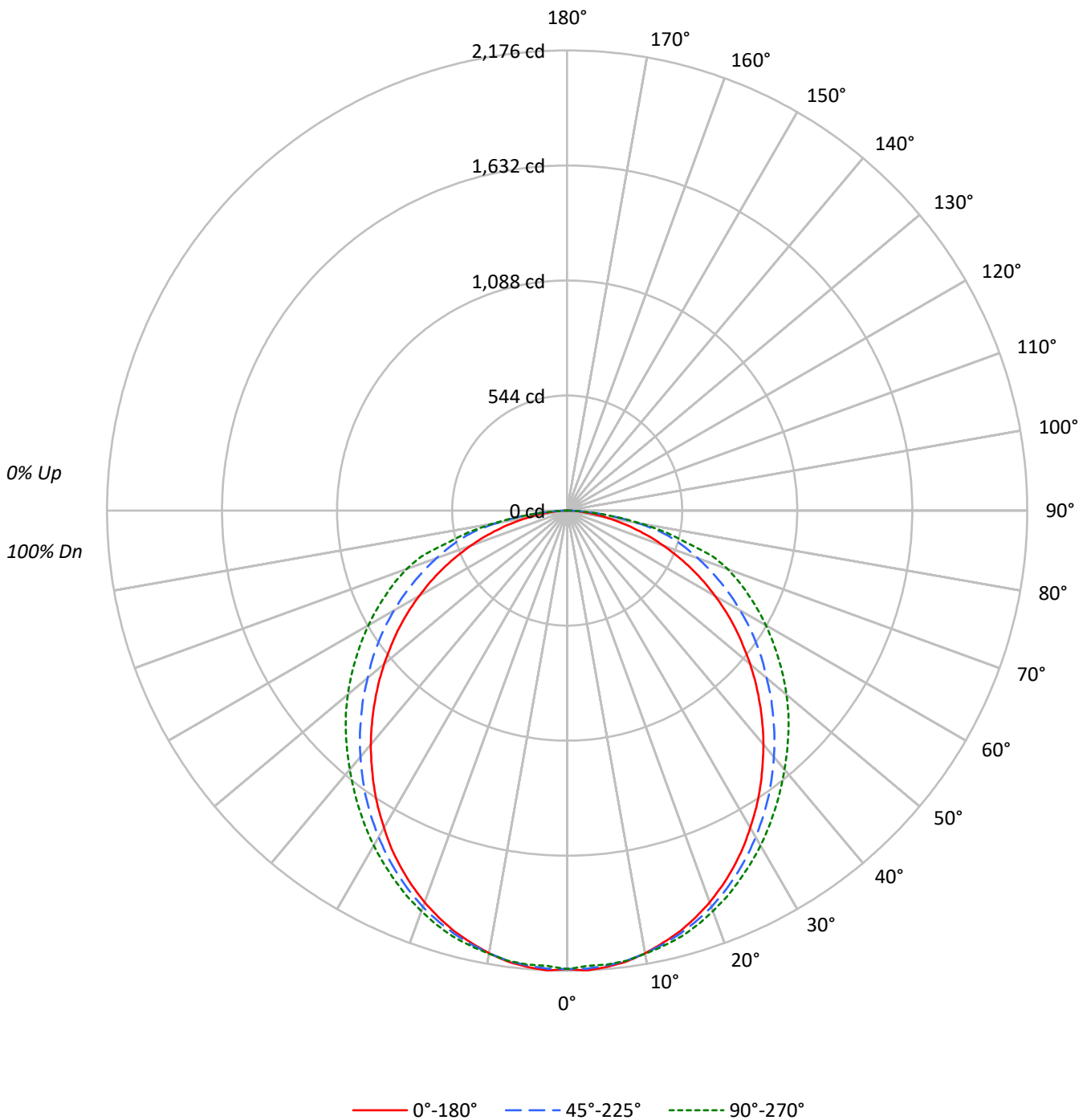
Input Watts (W): 48.820164
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	32					32			
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	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2917	2917	2917
5°	2925	2916	2911
10°	2904	2904	2907
15°	2869	2884	2905
20°	2822	2856	2886
25°	2763	2816	2863
30°	2691	2770	2842
35°	2616	2723	2821
40°	2537	2671	2808
45°	2451	2620	2817
50°	2364	2577	2833
55°	2277	2560	2863
60°	2174	2544	2920
65°	2060	2545	3017
70°	1905	2587	3178
75°	1704	2705	3023
80°	1426	2590	2769
85°	1078	1991	1894



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.8	3.3
10°-20°	583.0	9.4
20°-30°	871.6	14.1
30°-40°	1034.0	16.7
40°-50°	1064.2	17.2
50°-60°	976.3	15.8
60°-70°	789.4	12.8
70°-80°	512.3	8.3
80°-90°	141.3	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°	1659.5	26.9
0°-40°	2693.5	43.6
0°-60°	4734.0	76.6
0°-90°	6177.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2168	2168	2168	2168	2168	
5°	2166	2151	2159	2157	2155	205
15°	2060	2052	2070	2079	2085	580
25°	1861	1863	1897	1914	1929	857
35°	1592	1605	1658	1694	1717	996
45°	1288	1309	1377	1442	1480	994
55°	971	1000	1091	1180	1220	867
65°	647	685	799	905	948	640
75°	328	389	520	582	582	348
85°	70	118	129	125	123	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2167.8	2167.8	2167.8	2167.8	2167.8
2.5°	2176.3	2159.3	2167.8	2165.7	2155.1
5°	2165.7	2150.9	2159.3	2157.2	2155.1
7.5°	2150.9	2136.1	2146.7	2144.5	2146.7
10°	2125.5	2112.8	2125.5	2127.6	2127.6
12.5°	2093.8	2083.2	2100.1	2104.4	2108.6
15°	2059.9	2051.5	2070.5	2079.0	2085.3
17.5°	2017.6	2011.3	2034.6	2045.1	2053.6
20°	1971.1	1969.0	1994.4	2005.0	2015.5
22.5°	1918.2	1918.2	1947.9	1960.5	1975.3
25°	1861.1	1863.3	1897.1	1914.0	1928.8
27.5°	1799.8	1801.9	1842.1	1863.3	1880.2
30°	1732.1	1740.6	1782.9	1810.4	1829.4
32.5°	1664.5	1675.0	1721.6	1753.3	1774.4
35°	1592.5	1605.2	1658.1	1694.1	1717.3
37.5°	1518.5	1533.3	1590.4	1630.6	1658.1
40°	1444.5	1461.4	1520.6	1567.2	1598.9
42.5°	1366.2	1385.3	1450.8	1505.8	1539.7
45°	1288.0	1309.1	1376.8	1442.4	1480.5
47.5°	1209.7	1235.1	1307.0	1378.9	1419.1
50°	1129.4	1154.8	1230.9	1313.4	1353.6
52.5°	1049.0	1078.6	1163.2	1247.8	1288.0
55°	970.8	1000.4	1091.3	1180.1	1220.3
57.5°	890.4	920.0	1019.4	1112.5	1152.6
60°	807.9	841.7	945.4	1040.5	1085.0
62.5°	727.5	763.5	873.5	975.0	1017.3
65°	647.2	685.2	799.4	905.2	947.5
67.5°	564.7	609.1	727.5	835.4	879.8
70°	484.3	533.0	657.7	765.6	807.9
72.5°	406.1	458.9	588.0	697.9	723.3
75°	327.8	389.1	520.3	581.6	581.6
77.5°	253.8	321.5	444.1	467.4	480.1
80°	184.0	258.0	334.2	361.7	357.4
82.5°	122.7	196.7	239.0	239.0	232.6
85°	69.8	118.4	129.0	124.8	122.7
87.5°	29.6	44.4	40.2	31.7	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)