

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: P260767

Luminaire Tested: **24CZ-LD5-65-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260767
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-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6384.0 lumens
Efficiency: N/A
Efficacy: 130.0 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

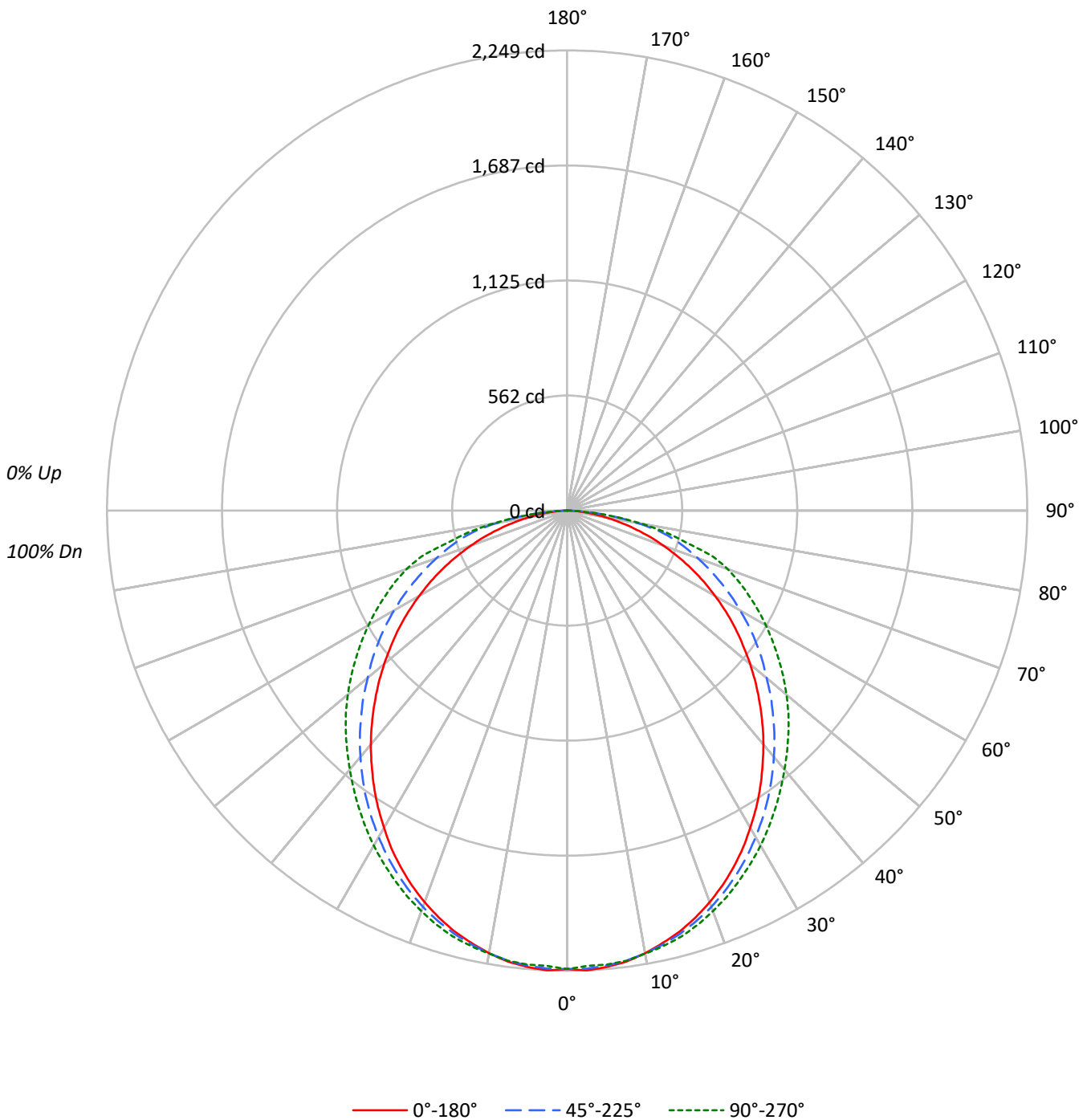
Input Watts (W): 49.104
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3015	3015	3015
5°	3023	3014	3008
10°	3001	3001	3004
15°	2966	2981	3002
20°	2917	2951	2983
25°	2856	2911	2960
30°	2781	2863	2937
35°	2703	2815	2915
40°	2622	2760	2902
45°	2533	2708	2911
50°	2443	2663	2928
55°	2354	2646	2959
60°	2247	2629	3017
65°	2130	2630	3117
70°	1969	2674	3285
75°	1761	2795	3125
80°	1474	2676	2862
85°	1113	2058	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	3.3
10°-20°	602.6	9.4
20°-30°	900.8	14.1
30°-40°	1068.6	16.7
40°-50°	1099.9	17.2
50°-60°	1009.0	15.8
60°-70°	815.8	12.8
70°-80°	529.5	8.3
80°-90°	146.0	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°	1715.1	26.9
0°-40°	2783.7	43.6
0°-60°	4892.7	76.6
0°-90°	6384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6384.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2240	2240	2240	2240	2240	
5°	2238	2223	2232	2230	2227	212
15°	2129	2120	2140	2149	2155	600
25°	1924	1926	1961	1978	1994	885
35°	1646	1659	1714	1751	1775	1029
45°	1331	1353	1423	1491	1530	1027
55°	1003	1034	1128	1220	1261	896
65°	669	708	826	936	979	661
75°	339	402	538	601	601	360
85°	72	122	133	129	127	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2240.5	2240.5	2240.5	2240.5	2240.5
2.5°	2249.2	2231.7	2240.5	2238.3	2227.3
5°	2238.3	2223.0	2231.7	2229.5	2227.3
7.5°	2223.0	2207.7	2218.6	2216.4	2218.6
10°	2196.7	2183.6	2196.7	2198.9	2198.9
12.5°	2163.9	2153.0	2170.5	2174.9	2179.2
15°	2129.0	2120.2	2139.9	2148.6	2155.2
17.5°	2085.3	2078.7	2102.7	2113.7	2122.4
20°	2037.2	2035.0	2061.2	2072.1	2083.1
22.5°	1982.5	1982.5	2013.1	2026.2	2041.5
25°	1923.5	1925.7	1960.7	1978.2	1993.5
27.5°	1860.1	1862.3	1903.8	1925.7	1943.2
30°	1790.2	1798.9	1842.6	1871.1	1890.7
32.5°	1720.2	1731.2	1779.2	1812.0	1833.9
35°	1645.9	1659.0	1713.7	1750.8	1774.9
37.5°	1569.4	1584.7	1643.7	1685.3	1713.7
40°	1492.9	1510.4	1571.6	1619.7	1652.5
42.5°	1412.0	1431.7	1499.5	1556.3	1591.3
45°	1331.2	1353.0	1423.0	1490.7	1530.1
47.5°	1250.3	1276.5	1350.8	1425.1	1466.7
50°	1167.2	1193.5	1272.1	1357.4	1398.9
52.5°	1084.2	1114.8	1202.2	1289.6	1331.2
55°	1003.3	1033.9	1127.9	1219.7	1261.2
57.5°	920.2	950.8	1053.6	1149.7	1191.3
60°	835.0	870.0	977.1	1075.4	1121.3
62.5°	751.9	789.1	902.7	1007.7	1051.4
65°	668.9	708.2	826.2	935.5	979.2
67.5°	583.6	629.5	751.9	863.4	909.3
70°	500.5	550.8	679.8	791.3	835.0
72.5°	419.7	474.3	607.7	721.3	747.5
75°	338.8	402.2	537.7	601.1	601.1
77.5°	262.3	332.2	459.0	483.1	496.2
80°	190.2	266.7	345.4	373.8	369.4
82.5°	126.8	203.3	247.0	247.0	240.4
85°	72.1	122.4	133.3	129.0	126.8
87.5°	30.6	45.9	41.5	32.8	28.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)