

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: P261339

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261339
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-LD5-75-S-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6265.0 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

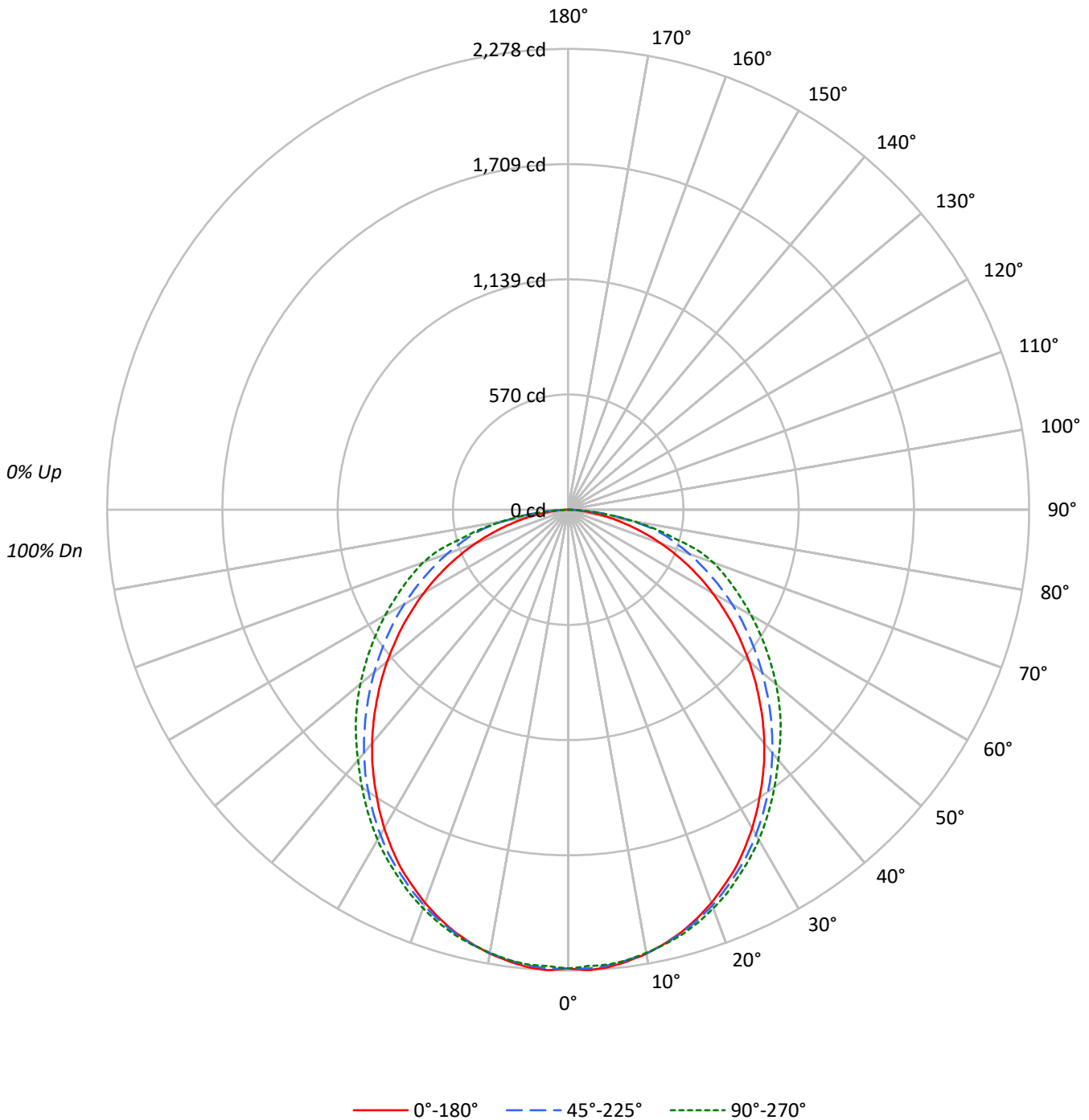
Input Watts (W): 57.846
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
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°	3052	3052	3052
5°	3066	3055	3049
10°	3045	3042	3039
15°	3011	3017	3029
20°	2961	2982	3003
25°	2903	2934	2965
30°	2824	2882	2928
35°	2736	2821	2880
40°	2647	2757	2838
45°	2547	2685	2824
50°	2444	2618	2806
55°	2337	2562	2797
60°	2216	2519	2810
65°	2084	2489	2867
70°	1919	2501	3002
75°	1701	2590	2796
80°	1421	2455	2520
85°	1062	1964	1802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.4
10°-20°	609.9	9.7
20°-30°	908.8	14.5
30°-40°	1069.9	17.1
40°-50°	1087.2	17.4
50°-60°	977.5	15.6
60°-70°	772.2	12.3
70°-80°	489.9	7.8
80°-90°	135.2	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°	1733.1	27.7
0°-40°	2803.0	44.7
0°-60°	4867.7	77.7
0°-90°	6265.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2270	2251	2262	2258	2258	215
15°	2162	2151	2166	2172	2174	609
25°	1955	1953	1976	1989	1997	899
35°	1666	1676	1718	1736	1753	1042
45°	1338	1357	1411	1453	1484	1033
55°	996	1022	1092	1163	1192	890
65°	655	688	782	867	900	648
75°	327	384	498	542	538	348
85°	69	119	127	117	117	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2268.0	2268.0	2268.0	2268.0	2268.0
2.5°	2278.5	2261.8	2270.1	2266.0	2257.6
5°	2270.1	2251.4	2261.8	2257.6	2257.6
7.5°	2251.4	2236.8	2245.1	2243.0	2245.1
10°	2228.4	2213.8	2226.4	2226.4	2224.3
12.5°	2197.2	2184.7	2199.3	2199.3	2201.3
15°	2161.7	2151.3	2165.9	2172.2	2174.2
17.5°	2118.0	2107.5	2126.3	2132.5	2138.8
20°	2067.9	2063.8	2082.5	2088.8	2097.1
22.5°	2011.6	2011.6	2030.4	2038.7	2051.2
25°	1955.4	1953.3	1976.2	1988.7	1997.0
27.5°	1888.6	1890.7	1919.9	1932.4	1942.8
30°	1817.8	1821.9	1855.3	1869.9	1884.5
32.5°	1742.7	1751.1	1788.6	1805.3	1819.9
35°	1665.6	1676.0	1717.7	1736.5	1753.1
37.5°	1588.5	1603.1	1646.8	1665.6	1684.4
40°	1507.2	1519.7	1569.7	1592.6	1615.6
42.5°	1423.8	1440.5	1490.5	1523.8	1550.9
45°	1338.3	1357.1	1411.3	1453.0	1484.2
47.5°	1252.8	1277.9	1330.0	1386.3	1413.4
50°	1167.4	1192.4	1250.8	1313.3	1340.4
52.5°	1079.8	1104.8	1171.5	1236.2	1265.4
55°	996.4	1021.5	1092.3	1163.2	1192.4
57.5°	908.9	936.0	1015.2	1088.2	1117.3
60°	823.4	850.5	936.0	1013.1	1044.4
62.5°	740.0	769.2	858.9	940.2	971.4
65°	654.6	687.9	781.7	867.2	900.5
67.5°	571.2	608.7	706.7	796.3	831.8
70°	487.8	531.6	635.8	727.5	763.0
72.5°	406.5	454.4	564.9	656.6	675.4
75°	327.3	383.6	498.2	542.0	537.8
77.5°	252.2	314.8	423.2	431.5	444.0
80°	183.4	252.2	316.9	333.5	325.2
82.5°	120.9	189.7	227.2	218.9	216.8
85°	68.8	118.8	127.2	116.7	116.7
87.5°	29.2	47.9	41.7	31.3	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)