

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: P263117

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-75-SQP-UNV-L83050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4716.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

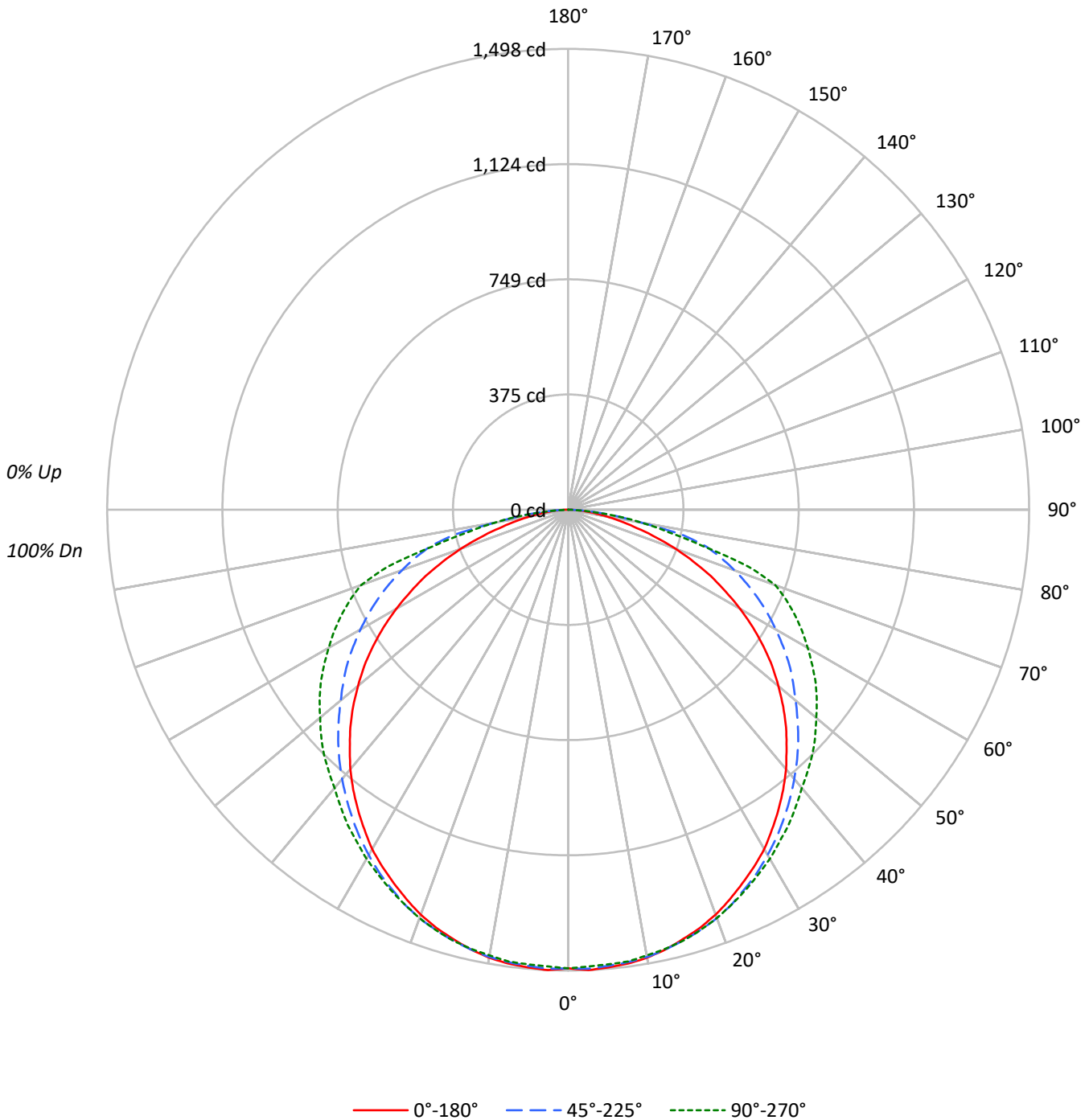
Input Watts (W): 58.287192  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	98	94	105	101	97	93	96	93	90		92	90	87		89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73		80	75	71		77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60		70	64	59		67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44		55	49	43		54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38		50	43	38		48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2006	2006	2006
5°	2017	2010	2004
10°	2020	2017	2010
15°	2012	2019	2019
20°	2006	2023	2023
25°	1989	2018	2025
30°	1979	2013	2036
35°	1957	2009	2053
40°	1934	2007	2075
45°	1905	2012	2137
50°	1866	2019	2203
55°	1817	2057	2303
60°	1737	2098	2419
65°	1629	2164	2590
70°	1457	2262	2817
75°	1203	2419	2330
80°	982	1869	1888
85°	790	1241	1166



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.6	3.0
10°-20°	408.6	8.7
20°-30°	624.4	13.2
30°-40°	763.7	16.2
40°-50°	817.2	17.3
50°-60°	782.5	16.6
60°-70°	661.9	14.0
70°-80°	419.6	8.9
80°-90°	96.5	2.0
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°	1174.6	24.9
0°-40°	1938.3	41.1
0°-60°	3538.0	75.0
0°-90°	4716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4716.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1493	1486	1488	1486	1484	142
15°	1444	1442	1449	1449	1449	408
25°	1340	1340	1359	1364	1364	618
35°	1191	1198	1223	1240	1250	745
45°	1001	1018	1057	1101	1123	771
55°	775	799	877	950	982	691
65°	512	560	680	772	814	504
75°	231	326	465	463	448	252
85°	51	78	80	73	76	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1490.8	1490.8	1490.8	1490.8	1490.8
2.5°	1498.1	1490.8	1493.3	1490.8	1485.9
5°	1493.3	1485.9	1488.4	1485.9	1483.5
7.5°	1488.4	1481.1	1483.5	1481.1	1481.1
10°	1478.6	1471.3	1476.2	1473.8	1471.3
12.5°	1464.0	1459.1	1464.0	1461.6	1461.6
15°	1444.5	1442.1	1449.4	1449.4	1449.4
17.5°	1425.0	1422.6	1432.4	1432.4	1432.4
20°	1400.7	1398.2	1412.9	1412.9	1412.9
22.5°	1371.5	1369.0	1388.5	1388.5	1388.5
25°	1339.8	1339.8	1359.3	1364.1	1364.1
27.5°	1308.1	1308.1	1330.0	1337.3	1337.3
30°	1274.0	1274.0	1295.9	1305.7	1310.6
32.5°	1232.6	1237.5	1261.8	1274.0	1278.9
35°	1191.2	1198.5	1222.9	1239.9	1249.7
37.5°	1147.3	1154.7	1183.9	1203.4	1215.6
40°	1101.1	1110.8	1142.5	1166.8	1181.4
42.5°	1049.9	1064.5	1101.1	1132.7	1152.2
45°	1001.2	1018.2	1057.2	1101.1	1123.0
47.5°	947.6	967.1	1010.9	1067.0	1088.9
50°	891.6	911.1	964.6	1028.0	1052.3
52.5°	835.5	857.5	920.8	989.0	1018.2
55°	774.6	799.0	877.0	950.0	981.7
57.5°	711.3	740.5	828.2	906.2	940.3
60°	645.5	682.1	779.5	862.3	898.9
62.5°	577.3	621.2	730.8	818.5	857.5
65°	511.6	560.3	679.6	772.2	813.6
67.5°	440.9	501.8	628.5	728.4	767.3
70°	370.3	440.9	574.9	677.2	716.2
72.5°	299.6	384.9	521.3	613.9	613.9
75°	231.4	326.4	465.3	462.8	448.2
77.5°	175.4	272.8	382.4	326.4	328.9
80°	126.7	219.2	241.2	241.2	243.6
82.5°	85.3	168.1	155.9	153.5	158.3
85°	51.2	78.0	80.4	73.1	75.5
87.5°	24.4	26.8	21.9	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)