

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: P263442

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263442
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-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4521.0 lumens
Efficiency: N/A
Efficacy: 76.0 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

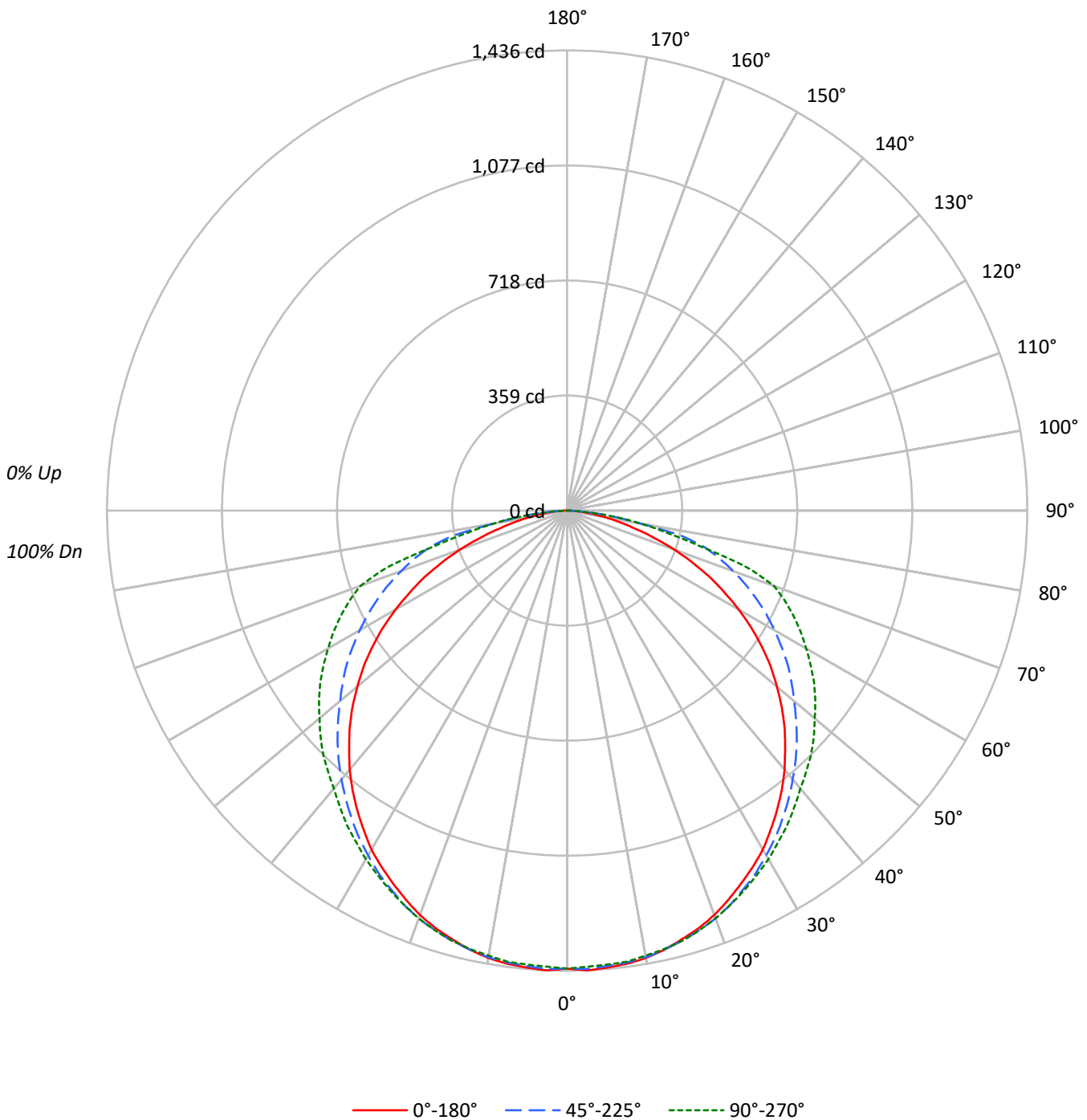
Input Watts (W): 59.52
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1923	1923	1923
5°	1933	1927	1921
10°	1937	1934	1927
15°	1929	1936	1936
20°	1923	1939	1939
25°	1907	1935	1941
30°	1897	1930	1952
35°	1876	1926	1968
40°	1854	1924	1989
45°	1826	1928	2049
50°	1789	1936	2112
55°	1742	1972	2208
60°	1665	2011	2319
65°	1561	2074	2483
70°	1397	2168	2701
75°	1153	2319	2234
80°	941	1791	1809
85°	756	1190	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	3.0
10°-20°	391.7	8.7
20°-30°	598.6	13.2
30°-40°	732.1	16.2
40°-50°	783.4	17.3
50°-60°	750.1	16.6
60°-70°	634.6	14.0
70°-80°	402.2	8.9
80°-90°	92.5	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°	1126.0	24.9
0°-40°	1858.1	41.1
0°-60°	3391.6	75.0
0°-90°	4521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1432	1424	1427	1424	1422	136
15°	1385	1382	1390	1390	1390	391
25°	1284	1284	1303	1308	1308	593
35°	1142	1149	1172	1189	1198	714
45°	960	976	1014	1056	1077	739
55°	743	766	841	911	941	662
65°	490	537	652	740	780	483
75°	222	313	446	444	430	241
85°	49	75	77	70	72	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.2	1429.2	1429.2	1429.2	1429.2
2.5°	1436.2	1429.2	1431.5	1429.2	1424.5
5°	1431.5	1424.5	1426.8	1424.5	1422.2
7.5°	1426.8	1419.8	1422.2	1419.8	1419.8
10°	1417.5	1410.5	1415.2	1412.8	1410.5
12.5°	1403.5	1398.8	1403.5	1401.1	1401.1
15°	1384.8	1382.5	1389.5	1389.5	1389.5
17.5°	1366.1	1363.8	1373.1	1373.1	1373.1
20°	1342.8	1340.4	1354.4	1354.4	1354.4
22.5°	1314.7	1312.4	1331.1	1331.1	1331.1
25°	1284.4	1284.4	1303.1	1307.7	1307.7
27.5°	1254.0	1254.0	1275.0	1282.1	1282.1
30°	1221.3	1221.3	1242.4	1251.7	1256.4
32.5°	1181.6	1186.3	1209.7	1221.3	1226.0
35°	1141.9	1148.9	1172.3	1188.6	1198.0
37.5°	1099.9	1106.9	1134.9	1153.6	1165.3
40°	1055.5	1064.9	1095.2	1118.6	1132.6
42.5°	1006.5	1020.5	1055.5	1085.9	1104.6
45°	959.8	976.1	1013.5	1055.5	1076.6
47.5°	908.4	927.1	969.1	1022.8	1043.9
50°	854.7	873.4	924.8	985.5	1008.8
52.5°	801.0	822.0	882.7	948.1	976.1
55°	742.6	766.0	840.7	910.7	941.1
57.5°	681.9	709.9	794.0	868.7	901.4
60°	618.8	653.9	747.3	826.7	861.7
62.5°	553.5	595.5	700.6	784.6	822.0
65°	490.4	537.1	651.5	740.3	780.0
67.5°	422.7	481.1	602.5	698.2	735.6
70°	355.0	422.7	551.1	649.2	686.6
72.5°	287.2	369.0	499.7	588.5	588.5
75°	221.8	312.9	446.0	443.7	429.7
77.5°	168.1	261.5	366.6	312.9	315.3
80°	121.4	210.2	231.2	231.2	233.5
82.5°	81.7	161.1	149.5	147.1	151.8
85°	49.0	74.7	77.1	70.1	72.4
87.5°	23.4	25.7	21.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)