

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: P263306

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263306
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-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4981.0 lumens
Efficiency: N/A
Efficacy: 84.3 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

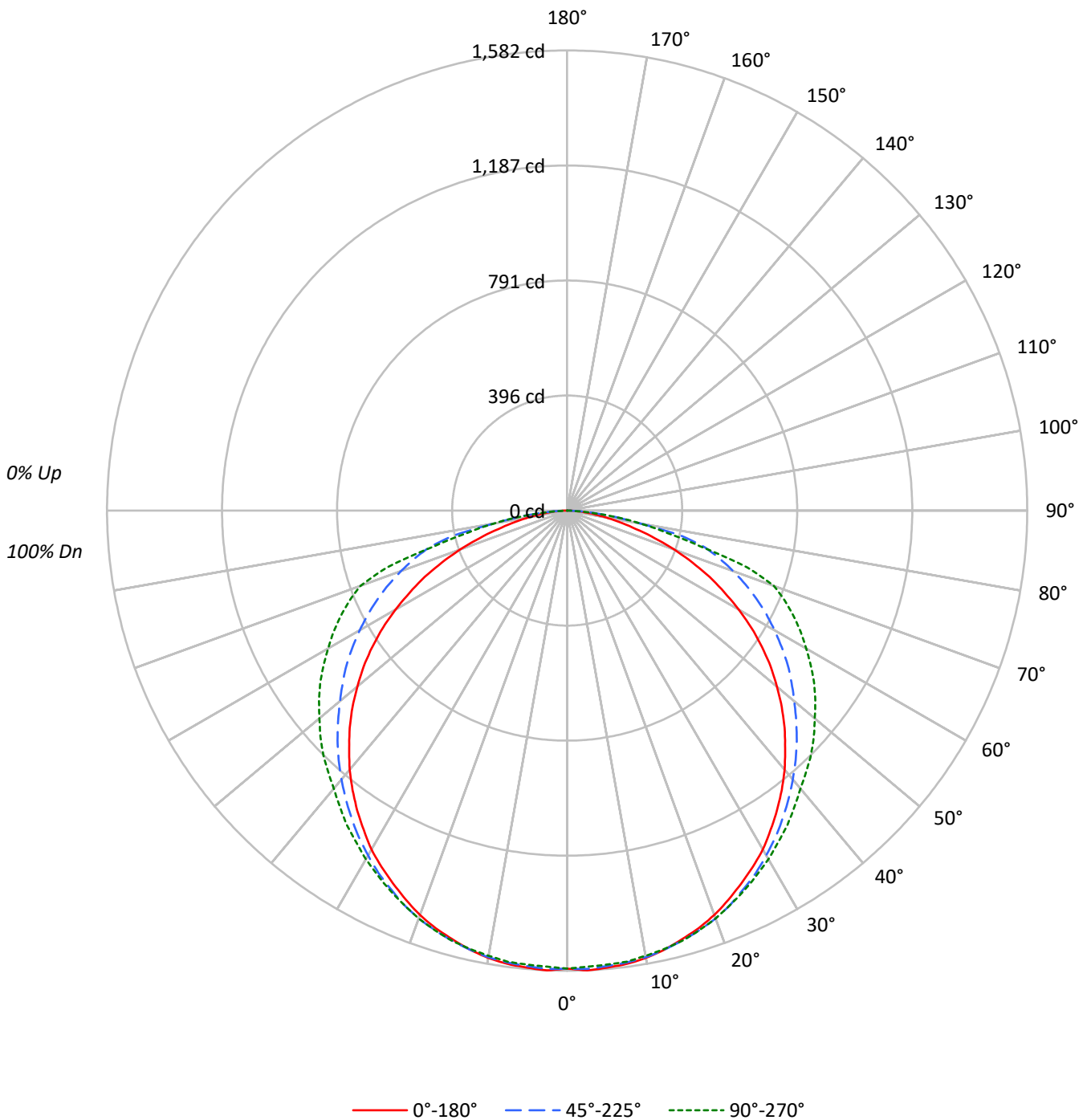
Input Watts (W): 59.055
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2119	2119	2119
5°	2130	2123	2116
10°	2134	2130	2123
15°	2125	2132	2132
20°	2118	2137	2137
25°	2101	2131	2139
30°	2091	2127	2151
35°	2066	2122	2168
40°	2043	2119	2192
45°	2012	2125	2257
50°	1971	2133	2327
55°	1919	2173	2432
60°	1835	2215	2555
65°	1720	2285	2736
70°	1539	2389	2976
75°	1271	2555	2461
80°	1037	1974	1994
85°	834	1311	1232



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	3.0
10°-20°	431.5	8.7
20°-30°	659.5	13.2
30°-40°	806.6	16.2
40°-50°	863.1	17.3
50°-60°	826.5	16.6
60°-70°	699.1	14.0
70°-80°	443.2	8.9
80°-90°	101.9	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°	1240.6	24.9
0°-40°	2047.2	41.1
0°-60°	3736.7	75.0
0°-90°	4981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1575	1575	1575	1575	1575	
5°	1577	1569	1572	1569	1567	150
15°	1526	1523	1531	1531	1531	431
25°	1415	1415	1436	1441	1441	653
35°	1258	1266	1292	1310	1320	787
45°	1057	1076	1117	1163	1186	815
55°	818	844	926	1003	1037	730
65°	540	592	718	816	859	532
75°	244	345	491	489	473	266
85°	54	82	85	77	80	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1574.6	1574.6	1574.6	1574.6	1574.6
2.5°	1582.3	1574.6	1577.2	1574.6	1569.4
5°	1577.2	1569.4	1572.0	1569.4	1566.9
7.5°	1572.0	1564.3	1566.9	1564.3	1564.3
10°	1561.7	1554.0	1559.2	1556.6	1554.0
12.5°	1546.3	1541.1	1546.3	1543.7	1543.7
15°	1525.7	1523.1	1530.8	1530.8	1530.8
17.5°	1505.1	1502.5	1512.8	1512.8	1512.8
20°	1479.4	1476.8	1492.3	1492.3	1492.3
22.5°	1448.5	1445.9	1466.5	1466.5	1466.5
25°	1415.1	1415.1	1435.7	1440.8	1440.8
27.5°	1381.6	1381.6	1404.8	1412.5	1412.5
30°	1345.6	1345.6	1368.8	1379.1	1384.2
32.5°	1301.9	1307.0	1332.7	1345.6	1350.7
35°	1258.1	1265.8	1291.6	1309.6	1319.9
37.5°	1211.8	1219.5	1250.4	1271.0	1283.9
40°	1162.9	1173.2	1206.7	1232.4	1247.8
42.5°	1108.9	1124.3	1162.9	1196.4	1217.0
45°	1057.4	1075.5	1116.6	1162.9	1186.1
47.5°	1000.8	1021.4	1067.7	1126.9	1150.1
50°	941.7	962.2	1018.9	1085.7	1111.5
52.5°	882.5	905.6	972.5	1044.6	1075.5
55°	818.2	843.9	926.2	1003.4	1036.9
57.5°	751.3	782.1	874.8	957.1	993.1
60°	681.8	720.4	823.3	910.8	949.4
62.5°	609.8	656.1	771.9	864.5	905.6
65°	540.3	591.8	717.8	815.6	859.3
67.5°	465.7	530.0	663.8	769.3	810.4
70°	391.1	465.7	607.2	715.3	756.4
72.5°	316.5	406.5	550.6	648.4	648.4
75°	244.4	344.8	491.4	488.8	473.4
77.5°	185.2	288.2	403.9	344.8	347.3
80°	133.8	231.6	254.7	254.7	257.3
82.5°	90.0	177.5	164.7	162.1	167.2
85°	54.0	82.3	84.9	77.2	79.8
87.5°	25.7	28.3	23.2	15.4	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)