

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: P263105

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263105
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-LD5-60-SQP-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4233.0 lumens
Efficiency: N/A
Efficacy: 91.2 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

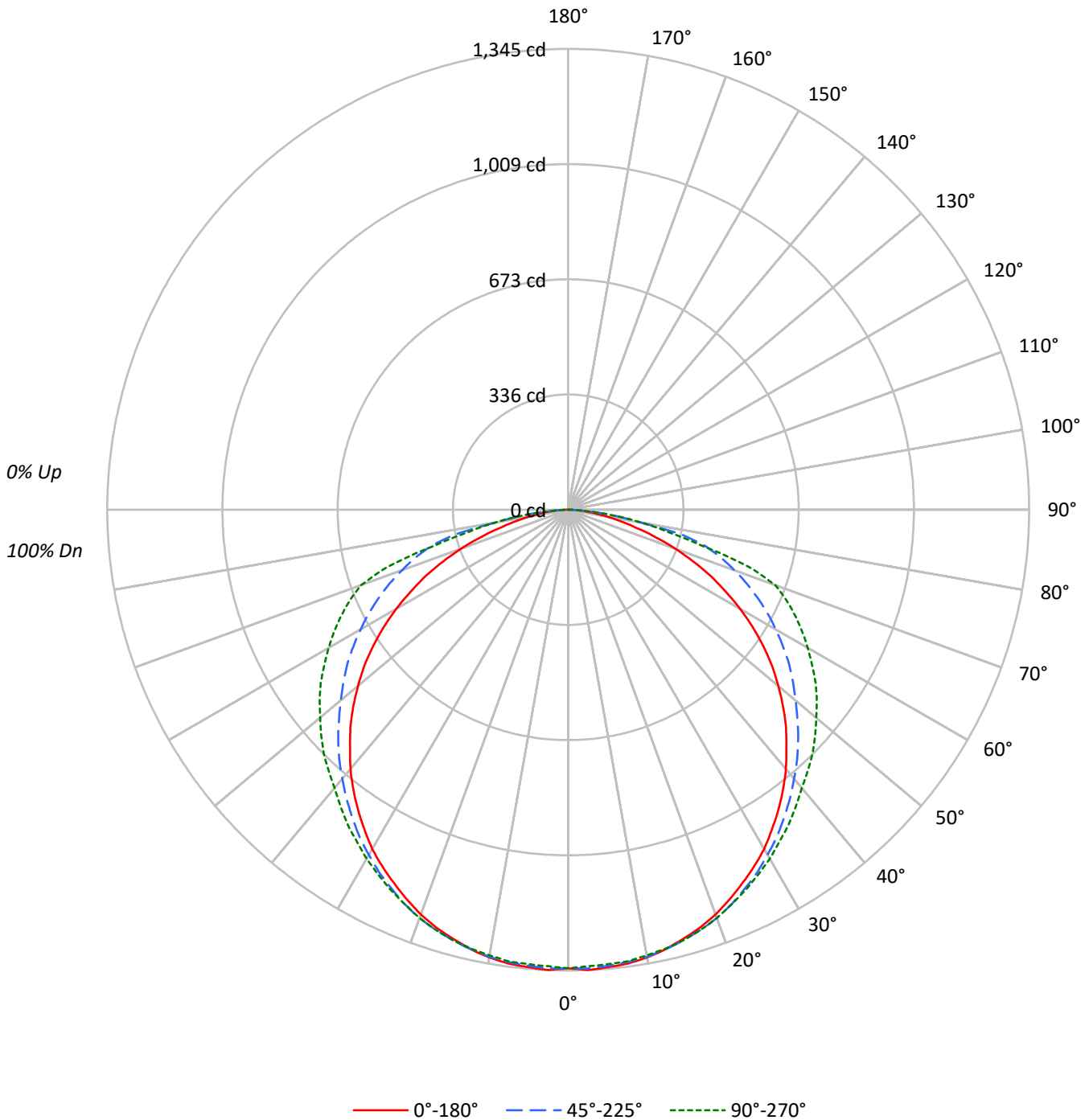
Input Watts (W): 46.437132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1800	1800	1800
5°	1810	1804	1798
10°	1813	1810	1804
15°	1806	1812	1812
20°	1800	1816	1816
25°	1785	1811	1818
30°	1777	1807	1828
35°	1756	1803	1842
40°	1736	1801	1862
45°	1710	1806	1918
50°	1675	1812	1977
55°	1631	1846	2067
60°	1559	1883	2171
65°	1462	1942	2325
70°	1307	2030	2529
75°	1080	2171	2091
80°	881	1678	1694
85°	709	1115	1047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.0
10°-20°	366.7	8.7
20°-30°	560.5	13.2
30°-40°	685.5	16.2
40°-50°	733.5	17.3
50°-60°	702.4	16.6
60°-70°	594.1	14.0
70°-80°	376.6	8.9
80°-90°	86.6	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°	1054.3	24.9
0°-40°	1739.8	41.1
0°-60°	3175.6	75.0
0°-90°	4233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4233.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1340	1334	1336	1334	1332	128
15°	1297	1294	1301	1301	1301	366
25°	1203	1203	1220	1224	1224	555
35°	1069	1076	1098	1113	1122	669
45°	899	914	949	988	1008	692
55°	695	717	787	853	881	620
65°	459	503	610	693	730	452
75°	208	293	418	415	402	226
85°	46	70	72	66	68	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.1	1338.1	1338.1	1338.1	1338.1
2.5°	1344.7	1338.1	1340.3	1338.1	1333.8
5°	1340.3	1333.8	1335.9	1333.8	1331.6
7.5°	1335.9	1329.4	1331.6	1329.4	1329.4
10°	1327.2	1320.6	1325.0	1322.8	1320.6
12.5°	1314.1	1309.7	1314.1	1311.9	1311.9
15°	1296.6	1294.4	1301.0	1301.0	1301.0
17.5°	1279.1	1276.9	1285.7	1285.7	1285.7
20°	1257.2	1255.0	1268.2	1268.2	1268.2
22.5°	1231.0	1228.8	1246.3	1246.3	1246.3
25°	1202.6	1202.6	1220.1	1224.4	1224.4
27.5°	1174.1	1174.1	1193.8	1200.4	1200.4
30°	1143.5	1143.5	1163.2	1172.0	1176.3
32.5°	1106.4	1110.7	1132.6	1143.5	1147.9
35°	1069.2	1075.8	1097.6	1112.9	1121.7
37.5°	1029.8	1036.4	1062.6	1080.1	1091.1
40°	988.3	997.0	1025.5	1047.3	1060.4
42.5°	942.4	955.5	988.3	1016.7	1034.2
45°	898.6	914.0	948.9	988.3	1008.0
47.5°	850.5	868.0	907.4	957.7	977.4
50°	800.3	817.7	865.8	922.7	944.6
52.5°	750.0	769.6	826.5	887.7	914.0
55°	695.3	717.2	787.1	852.7	881.2
57.5°	638.5	664.7	743.4	813.4	844.0
60°	579.4	612.2	699.7	774.0	806.8
62.5°	518.2	557.6	655.9	734.7	769.6
65°	459.2	502.9	610.0	693.1	730.3
67.5°	395.8	450.4	564.1	653.8	688.7
70°	332.3	395.8	516.0	607.8	642.8
72.5°	268.9	345.5	467.9	551.0	551.0
75°	207.7	293.0	417.6	415.4	402.3
77.5°	157.4	244.9	343.3	293.0	295.2
80°	113.7	196.8	216.5	216.5	218.6
82.5°	76.5	150.9	139.9	137.7	142.1
85°	45.9	70.0	72.2	65.6	67.8
87.5°	21.9	24.1	19.7	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)