

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: P263281

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263281
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-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4112.0 lumens
Efficiency: N/A
Efficacy: 90.8 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

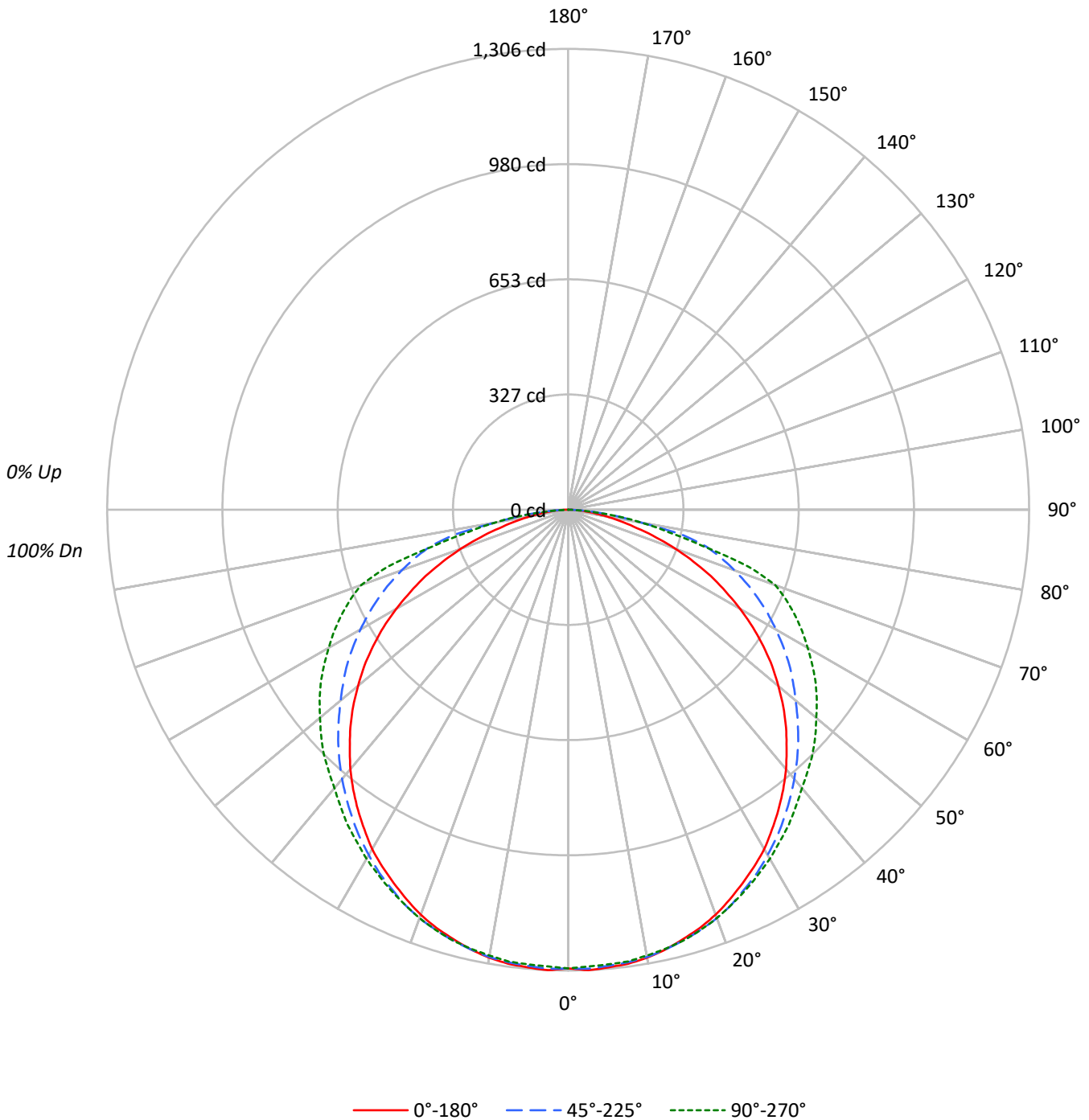
Input Watts (W): 45.291
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1749	1749	1749
5°	1759	1753	1747
10°	1762	1758	1753
15°	1754	1760	1760
20°	1749	1764	1764
25°	1734	1760	1766
30°	1726	1756	1775
35°	1706	1751	1790
40°	1686	1750	1809
45°	1661	1754	1863
50°	1627	1761	1921
55°	1584	1794	2008
60°	1515	1829	2109
65°	1420	1887	2259
70°	1270	1972	2457
75°	1049	2109	2032
80°	855	1629	1646
85°	689	1082	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.0
10°-20°	356.2	8.7
20°-30°	544.5	13.2
30°-40°	665.9	16.2
40°-50°	712.5	17.3
50°-60°	682.3	16.6
60°-70°	577.2	14.0
70°-80°	365.9	8.9
80°-90°	84.2	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°	1024.2	24.9
0°-40°	1690.0	41.1
0°-60°	3084.8	75.0
0°-90°	4112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1302	1296	1298	1296	1294	124
15°	1260	1257	1264	1264	1264	356
25°	1168	1168	1185	1189	1189	539
35°	1039	1045	1066	1081	1090	650
45°	873	888	922	960	979	672
55°	675	697	765	828	856	602
65°	446	488	593	673	709	439
75°	202	285	406	404	391	219
85°	45	68	70	64	66	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1299.9	1299.9	1299.9	1299.9	1299.9
2.5°	1306.3	1299.9	1302.0	1299.9	1295.6
5°	1302.0	1295.6	1297.8	1295.6	1293.5
7.5°	1297.8	1291.4	1293.5	1291.4	1291.4
10°	1289.3	1282.9	1287.1	1285.0	1282.9
12.5°	1276.5	1272.3	1276.5	1274.4	1274.4
15°	1259.5	1257.4	1263.8	1263.8	1263.8
17.5°	1242.5	1240.4	1248.9	1248.9	1248.9
20°	1221.3	1219.2	1231.9	1231.9	1231.9
22.5°	1195.8	1193.7	1210.7	1210.7	1210.7
25°	1168.2	1168.2	1185.2	1189.4	1189.4
27.5°	1140.6	1140.6	1159.7	1166.1	1166.1
30°	1110.8	1110.8	1130.0	1138.5	1142.7
32.5°	1074.7	1079.0	1100.2	1110.8	1115.1
35°	1038.6	1045.0	1066.2	1081.1	1089.6
37.5°	1000.4	1006.8	1032.3	1049.2	1059.9
40°	960.0	968.5	996.2	1017.4	1030.1
42.5°	915.4	928.2	960.0	987.7	1004.6
45°	873.0	887.8	921.8	960.0	979.2
47.5°	826.2	843.2	881.5	930.3	949.4
50°	777.4	794.4	841.1	896.3	917.6
52.5°	728.5	747.6	802.9	862.3	887.8
55°	675.4	696.7	764.6	828.4	856.0
57.5°	620.2	645.7	722.2	790.1	819.9
60°	562.9	594.7	679.7	751.9	783.8
62.5°	503.4	541.6	637.2	713.7	747.6
65°	446.0	488.5	592.6	673.3	709.4
67.5°	384.4	437.5	548.0	635.1	669.1
70°	322.8	384.4	501.3	590.5	624.5
72.5°	261.3	335.6	454.5	535.2	535.2
75°	201.8	284.6	405.7	403.6	390.8
77.5°	152.9	237.9	333.5	284.6	286.7
80°	110.4	191.2	210.3	210.3	212.4
82.5°	74.3	146.6	135.9	133.8	138.1
85°	44.6	68.0	70.1	63.7	65.8
87.5°	21.2	23.4	19.1	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)