

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: P258808

Luminaire Tested: **14CZ-LD5-39-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P258808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35112)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-39-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4160.0 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

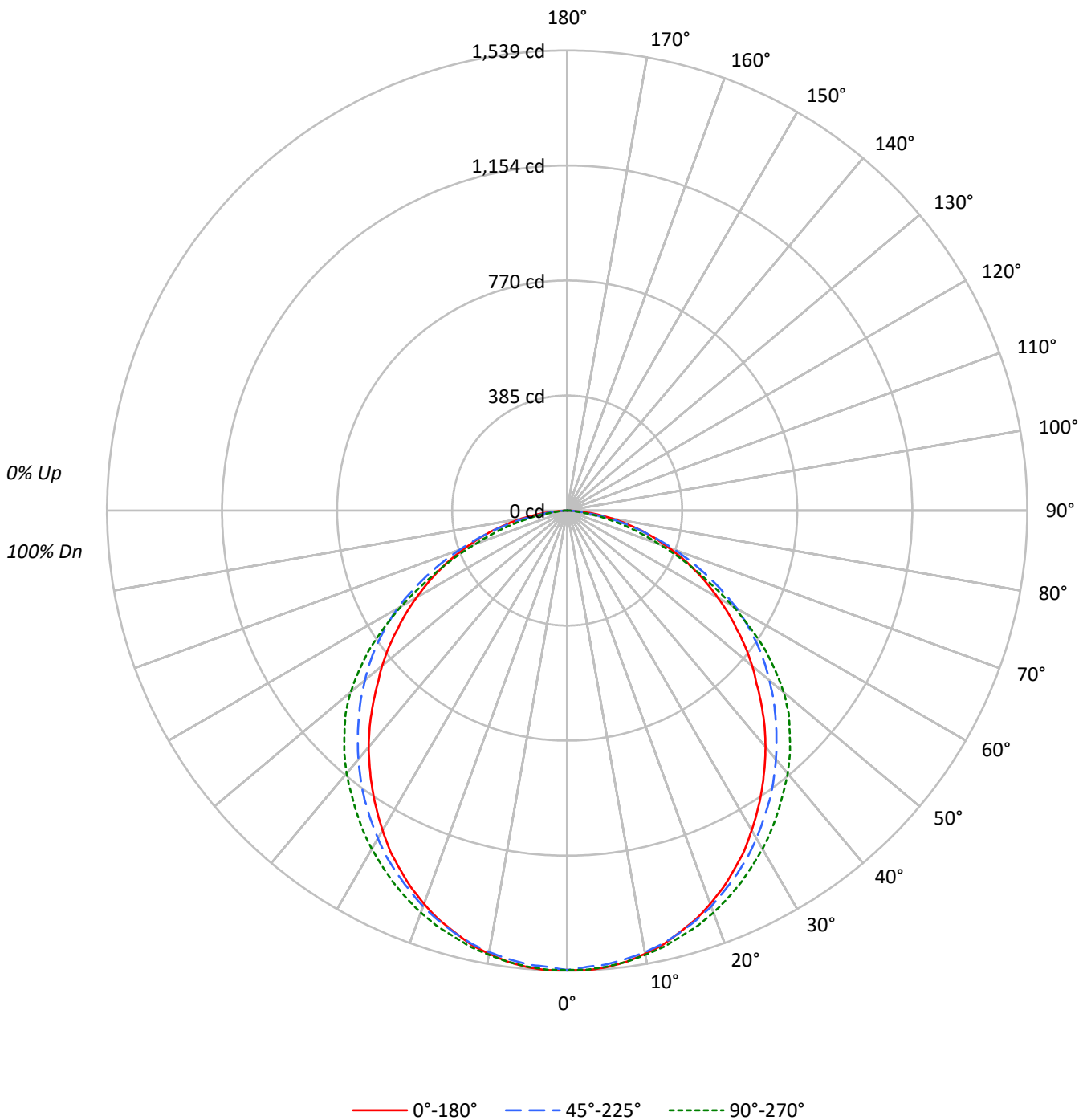
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4135	4135	4135
5°	4141	4116	4136
10°	4113	4098	4123
15°	4064	4069	4106
20°	4008	4034	4098
25°	3930	3985	4078
30°	3836	3934	4061
35°	3733	3879	4037
40°	3627	3816	4031
45°	3499	3753	4007
50°	3383	3694	3958
55°	3253	3635	3783
60°	3133	3532	3452
65°	2998	3305	3033
70°	2829	3005	2567
75°	2641	2601	2120
80°	2326	2011	1551
85°	1831	973	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	3.5
10°-20°	413.7	9.9
20°-30°	620.8	14.9
30°-40°	740.1	17.8
40°-50°	762.3	18.3
50°-60°	679.4	16.3
60°-70°	489.5	11.8
70°-80°	256.0	6.2
80°-90°	53.0	1.3
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°	1179.7	28.4
0°-40°	1919.8	46.1
0°-60°	3361.5	80.8
0°-90°	4160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1537	1537	1537	1537	1537	
5°	1533	1529	1524	1533	1531	145
15°	1459	1461	1461	1476	1474	412
25°	1324	1331	1342	1368	1374	610
35°	1136	1151	1181	1220	1229	711
45°	919	940	986	1042	1053	709
55°	693	716	775	810	806	622
65°	471	488	519	495	476	466
75°	254	267	250	217	204	269
85°	59	52	32	28	28	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.7	1536.7	1536.7	1536.7	1536.7
2.5°	1538.6	1534.9	1527.4	1536.7	1536.7
5°	1533.0	1529.3	1523.7	1533.0	1531.1
7.5°	1521.9	1518.2	1512.6	1523.7	1521.9
10°	1505.2	1503.3	1499.6	1510.8	1508.9
12.5°	1486.7	1484.8	1482.9	1494.1	1494.1
15°	1458.9	1460.7	1460.7	1475.5	1473.7
17.5°	1432.9	1434.8	1436.6	1455.1	1455.1
20°	1399.5	1401.4	1408.8	1429.2	1431.0
22.5°	1364.3	1366.2	1375.4	1399.5	1403.2
25°	1323.5	1330.9	1342.1	1368.0	1373.6
27.5°	1282.8	1288.3	1306.8	1336.5	1340.2
30°	1234.6	1245.7	1266.1	1299.4	1306.8
32.5°	1186.4	1199.3	1223.4	1260.5	1269.8
35°	1136.3	1151.1	1180.8	1219.7	1229.0
37.5°	1084.4	1097.4	1134.5	1175.2	1188.2
40°	1032.5	1045.5	1086.3	1132.6	1147.4
42.5°	976.9	995.4	1036.2	1088.1	1102.9
45°	919.4	939.8	986.2	1041.8	1052.9
47.5°	860.1	882.4	936.1	991.7	1004.7
50°	808.2	828.6	882.4	936.1	945.4
52.5°	752.6	771.1	830.5	874.9	876.8
55°	693.3	715.5	774.8	810.1	806.4
57.5°	639.5	658.1	715.5	734.1	722.9
60°	582.1	598.7	656.2	658.1	641.4
62.5°	526.4	543.1	587.6	574.6	554.3
65°	470.8	487.5	519.0	494.9	476.4
67.5°	417.1	431.9	450.4	418.9	400.4
70°	359.6	380.0	381.9	344.8	326.2
72.5°	309.6	320.7	317.0	281.8	265.1
75°	254.0	266.9	250.2	216.9	203.9
77.5°	202.1	211.3	189.1	157.6	148.3
80°	150.1	155.7	129.8	105.7	100.1
82.5°	102.0	102.0	74.1	57.5	51.9
85°	59.3	51.9	31.5	27.8	27.8
87.5°	20.4	13.0	13.0	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)