

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: P263328

Luminaire Tested: **24CZ-LD5-35SE-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263328
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-LD5-35SE-SQP-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2455.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

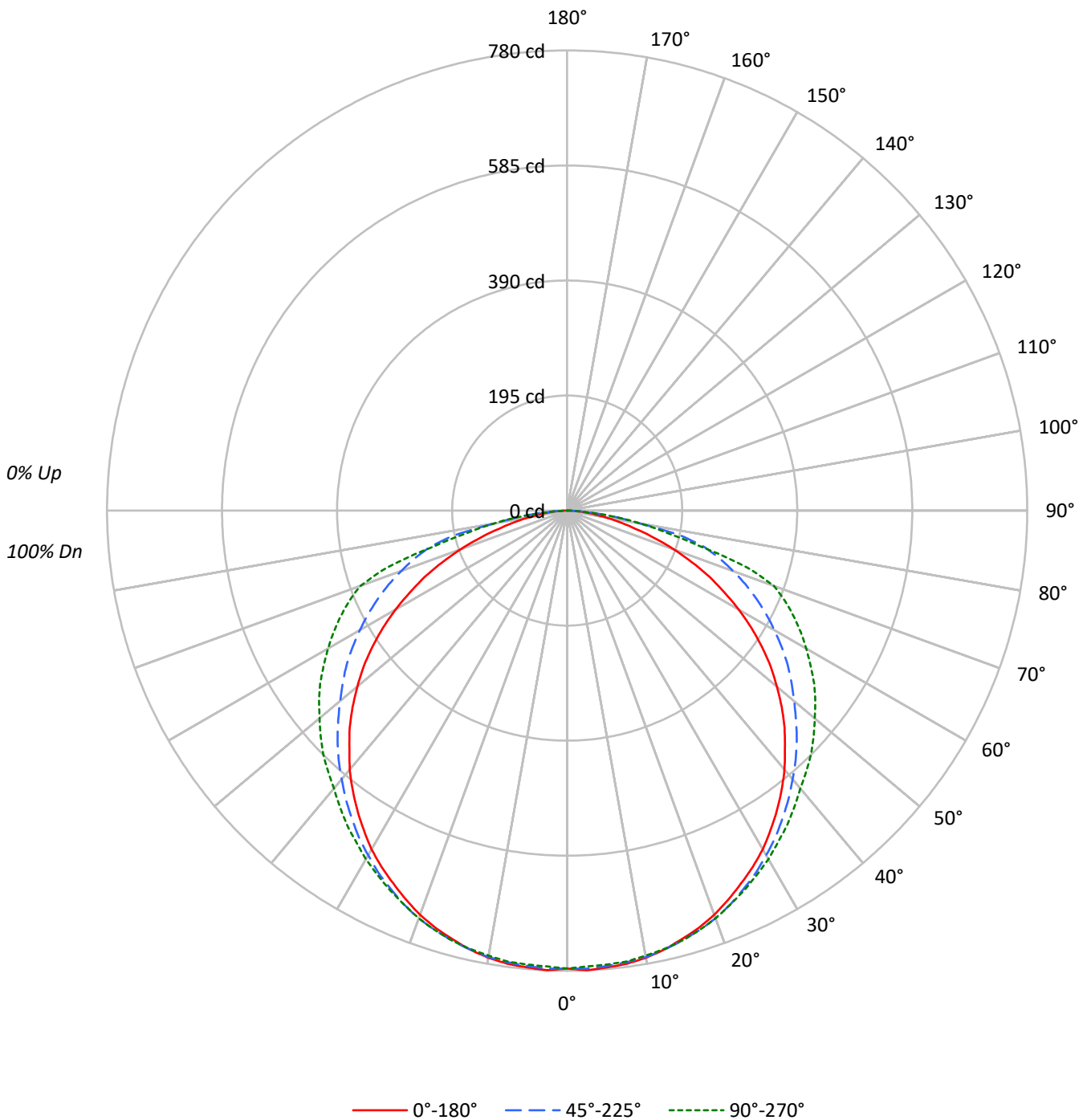
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1044	1044	1044
5°	1050	1046	1043
10°	1052	1050	1046
15°	1048	1051	1051
20°	1044	1053	1053
25°	1035	1050	1054
30°	1030	1048	1060
35°	1019	1046	1068
40°	1007	1045	1080
45°	992	1047	1112
50°	971	1051	1147
55°	946	1071	1199
60°	904	1092	1259
65°	848	1126	1348
70°	758	1177	1467
75°	626	1259	1213
80°	511	972	982
85°	411	645	607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.0
10°-20°	212.7	8.7
20°-30°	325.1	13.2
30°-40°	397.6	16.2
40°-50°	425.4	17.3
50°-60°	407.3	16.6
60°-70°	344.6	14.0
70°-80°	218.4	8.9
80°-90°	50.2	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°	611.5	24.9
0°-40°	1009.0	41.1
0°-60°	1841.8	75.0
0°-90°	2455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2455.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	777	774	775	774	772	74
15°	752	751	754	754	754	212
25°	697	697	708	710	710	322
35°	620	624	637	646	650	388
45°	521	530	550	573	585	402
55°	403	416	456	495	511	360
65°	266	292	354	402	424	262
75°	120	170	242	241	233	131
85°	27	41	42	38	39	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	776.1	776.1	776.1	776.1	776.1
2.5°	779.9	776.1	777.3	776.1	773.5
5°	777.3	773.5	774.8	773.5	772.3
7.5°	774.8	771.0	772.3	771.0	771.0
10°	769.7	765.9	768.5	767.2	765.9
12.5°	762.1	759.6	762.1	760.9	760.9
15°	752.0	750.7	754.5	754.5	754.5
17.5°	741.8	740.6	745.6	745.6	745.6
20°	729.2	727.9	735.5	735.5	735.5
22.5°	713.9	712.7	722.8	722.8	722.8
25°	697.4	697.4	707.6	710.1	710.1
27.5°	681.0	681.0	692.4	696.2	696.2
30°	663.2	663.2	674.6	679.7	682.2
32.5°	641.7	644.2	656.9	663.2	665.7
35°	620.1	623.9	636.6	645.5	650.5
37.5°	597.3	601.1	616.3	626.4	632.8
40°	573.2	578.2	594.7	607.4	615.0
42.5°	546.5	554.2	573.2	589.7	599.8
45°	521.2	530.1	550.4	573.2	584.6
47.5°	493.3	503.4	526.3	555.4	566.8
50°	464.1	474.3	502.2	535.1	547.8
52.5°	435.0	446.4	479.3	514.8	530.1
55°	403.3	415.9	456.5	494.6	511.0
57.5°	370.3	385.5	431.2	471.7	489.5
60°	336.0	355.1	405.8	448.9	467.9
62.5°	300.5	323.4	380.4	426.1	446.4
65°	266.3	291.7	353.8	402.0	423.5
67.5°	229.5	261.2	327.2	379.2	399.4
70°	192.7	229.5	299.3	352.5	372.8
72.5°	156.0	200.4	271.4	319.6	319.6
75°	120.5	169.9	242.2	240.9	233.3
77.5°	91.3	142.0	199.1	169.9	171.2
80°	65.9	114.1	125.5	125.5	126.8
82.5°	44.4	87.5	81.2	79.9	82.4
85°	26.6	40.6	41.8	38.0	39.3
87.5°	12.7	13.9	11.4	7.6	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)