

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: P263243

Luminaire Tested: **24CZ-LD5-40-SQP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263243
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-LD5-40-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: 2692.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

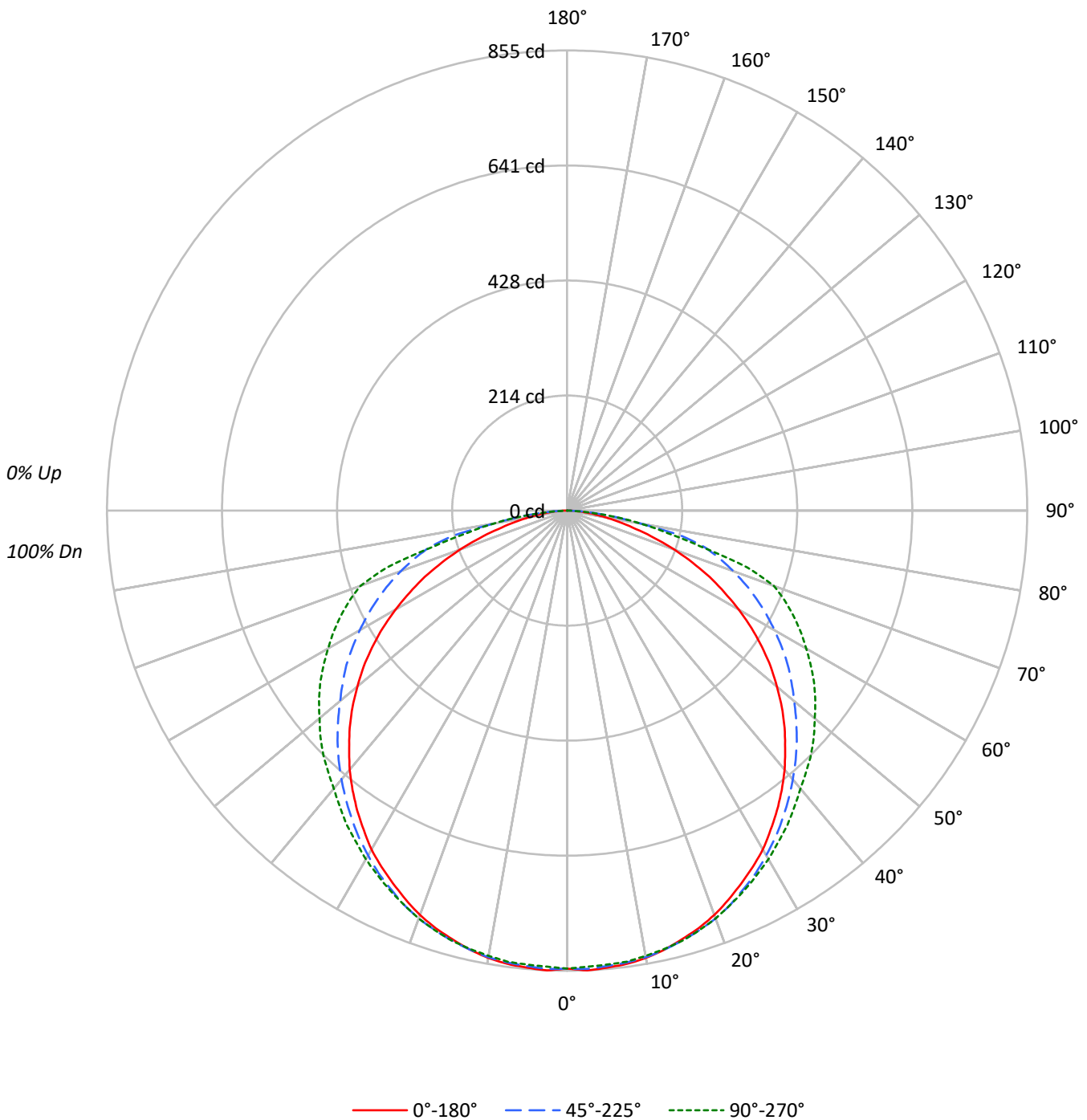
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1145	1145	1145
5°	1151	1147	1144
10°	1153	1151	1148
15°	1149	1153	1153
20°	1145	1155	1155
25°	1135	1152	1156
30°	1130	1149	1162
35°	1117	1146	1172
40°	1104	1145	1185
45°	1087	1148	1220
50°	1065	1153	1257
55°	1037	1174	1315
60°	992	1197	1381
65°	930	1235	1479
70°	832	1291	1608
75°	687	1381	1330
80°	560	1067	1078
85°	451	709	665



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.0
10°-20°	233.2	8.7
20°-30°	356.4	13.2
30°-40°	435.9	16.2
40°-50°	466.5	17.3
50°-60°	446.7	16.6
60°-70°	377.9	14.0
70°-80°	239.5	8.9
80°-90°	55.1	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°	670.5	24.9
0°-40°	1106.4	41.1
0°-60°	2019.5	75.0
0°-90°	2692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2692.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	852	848	850	848	847	81
15°	825	823	827	827	827	233
25°	765	765	776	779	779	353
35°	680	684	698	708	713	425
45°	572	581	604	628	641	440
55°	442	456	501	542	560	394
65°	292	320	388	441	464	288
75°	132	186	266	264	256	144
85°	29	44	46	42	43	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	851.0	851.0	851.0	851.0	851.0
2.5°	855.2	851.0	852.4	851.0	848.2
5°	852.4	848.2	849.6	848.2	846.8
7.5°	849.6	845.4	846.8	845.4	845.4
10°	844.0	839.9	842.6	841.3	839.9
12.5°	835.7	832.9	835.7	834.3	834.3
15°	824.6	823.2	827.4	827.4	827.4
17.5°	813.4	812.1	817.6	817.6	817.6
20°	799.5	798.2	806.5	806.5	806.5
22.5°	782.9	781.5	792.6	792.6	792.6
25°	764.8	764.8	775.9	778.7	778.7
27.5°	746.7	746.7	759.2	763.4	763.4
30°	727.2	727.2	739.8	745.3	748.1
32.5°	703.6	706.4	720.3	727.2	730.0
35°	680.0	684.1	698.0	707.8	713.3
37.5°	654.9	659.1	675.8	686.9	693.9
40°	628.5	634.1	652.1	666.1	674.4
42.5°	599.3	607.7	628.5	646.6	657.7
45°	571.5	581.2	603.5	628.5	641.0
47.5°	540.9	552.0	577.1	609.0	621.6
50°	508.9	520.1	550.6	586.8	600.7
52.5°	476.9	489.5	525.6	564.5	581.2
55°	442.2	456.1	500.6	542.3	560.4
57.5°	406.0	422.7	472.8	517.3	536.7
60°	368.5	389.3	445.0	492.2	513.1
62.5°	329.6	354.6	417.2	467.2	489.5
65°	292.0	319.8	388.0	440.8	464.4
67.5°	251.7	286.4	358.8	415.8	438.0
70°	211.4	251.7	328.2	386.6	408.8
72.5°	171.0	219.7	297.6	350.4	350.4
75°	132.1	186.3	265.6	264.2	255.9
77.5°	100.1	155.7	218.3	186.3	187.7
80°	72.3	125.1	137.7	137.7	139.1
82.5°	48.7	95.9	89.0	87.6	90.4
85°	29.2	44.5	45.9	41.7	43.1
87.5°	13.9	15.3	12.5	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)