

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: P263470

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263470
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-LD5-40SE-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2477.0 lumens
Efficiency: N/A
Efficacy: 79.5 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

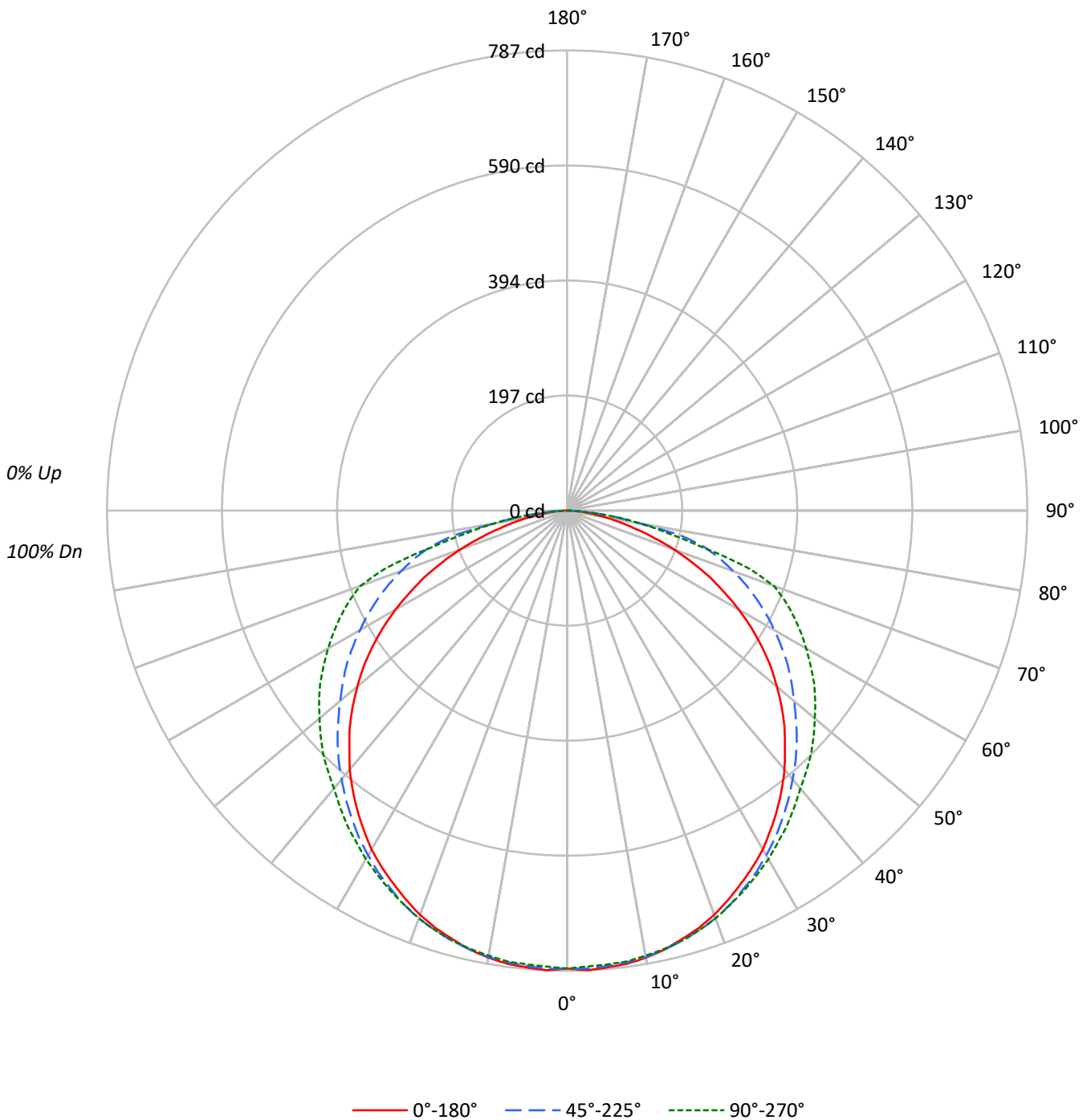
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1054	1054	1054
5°	1059	1056	1052
10°	1061	1059	1056
15°	1057	1060	1060
20°	1053	1063	1063
25°	1045	1060	1064
30°	1040	1058	1069
35°	1028	1055	1078
40°	1016	1054	1090
45°	1001	1057	1122
50°	980	1061	1157
55°	955	1080	1209
60°	913	1102	1270
65°	855	1137	1360
70°	765	1188	1480
75°	632	1271	1224
80°	515	982	991
85°	415	651	613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.4	3.0
10°-20°	214.6	8.7
20°-30°	328.0	13.2
30°-40°	401.1	16.2
40°-50°	429.2	17.3
50°-60°	411.0	16.6
60°-70°	347.7	14.0
70°-80°	220.4	8.9
80°-90°	50.7	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°	616.9	24.9
0°-40°	1018.1	41.1
0°-60°	1858.3	75.0
0°-90°	2477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	784	780	782	780	779	75
15°	759	757	761	761	761	214
25°	704	704	714	716	716	325
35°	626	630	642	651	656	391
45°	526	535	555	578	590	405
55°	407	420	461	499	516	363
65°	269	294	357	406	427	265
75°	122	171	244	243	235	132
85°	27	41	42	38	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	783.0	783.0	783.0	783.0	783.0
2.5°	786.9	783.0	784.3	783.0	780.5
5°	784.3	780.5	781.7	780.5	779.2
7.5°	781.7	777.9	779.2	777.9	777.9
10°	776.6	772.8	775.3	774.1	772.8
12.5°	769.0	766.4	769.0	767.7	767.7
15°	758.7	757.4	761.3	761.3	761.3
17.5°	748.5	747.2	752.3	752.3	752.3
20°	735.7	734.4	742.1	742.1	742.1
22.5°	720.3	719.1	729.3	729.3	729.3
25°	703.7	703.7	713.9	716.5	716.5
27.5°	687.1	687.1	698.6	702.4	702.4
30°	669.2	669.2	680.7	685.8	688.3
32.5°	647.4	650.0	662.8	669.2	671.7
35°	625.7	629.5	642.3	651.2	656.4
37.5°	602.6	606.5	621.8	632.1	638.4
40°	578.3	583.4	600.1	612.9	620.5
42.5°	551.4	559.1	578.3	594.9	605.2
45°	525.9	534.8	555.3	578.3	589.8
47.5°	497.7	507.9	531.0	560.4	571.9
50°	468.3	478.5	506.7	539.9	552.7
52.5°	438.9	450.4	483.6	519.5	534.8
55°	406.9	419.7	460.6	499.0	515.6
57.5°	373.6	389.0	435.0	476.0	493.9
60°	339.1	358.2	409.4	452.9	472.1
62.5°	303.2	326.3	383.8	429.9	450.4
65°	268.7	294.3	357.0	405.6	427.3
67.5°	231.6	263.6	330.1	382.6	403.0
70°	194.5	231.6	302.0	355.7	376.2
72.5°	157.4	202.2	273.8	322.4	322.4
75°	121.5	171.4	244.4	243.1	235.4
77.5°	92.1	143.3	200.9	171.4	172.7
80°	66.5	115.2	126.7	126.7	127.9
82.5°	44.8	88.3	81.9	80.6	83.2
85°	26.9	40.9	42.2	38.4	39.7
87.5°	12.8	14.1	11.5	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)