

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: P263466

Luminaire Tested: **24CZ-LD5-40SE-SQP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263466
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-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2184.0 lumens
Efficiency: N/A
Efficacy: 72.5 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

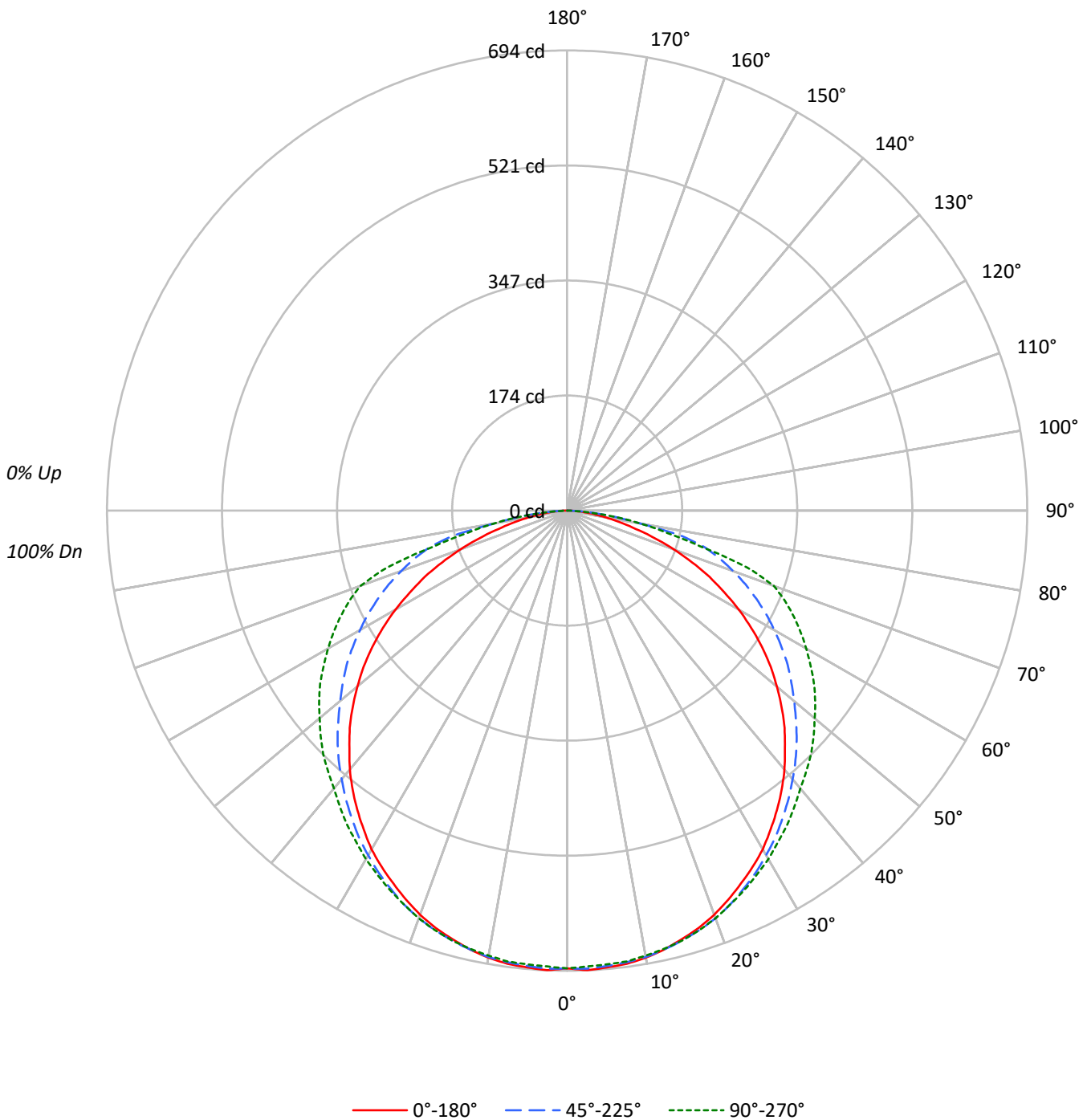
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	929	929	929
5°	934	931	928
10°	936	934	931
15°	932	935	935
20°	929	937	937
25°	921	935	938
30°	917	932	943
35°	906	930	951
40°	896	929	961
45°	882	932	990
50°	864	935	1020
55°	841	953	1066
60°	804	971	1120
65°	754	1002	1200
70°	675	1047	1305
75°	557	1120	1079
80°	455	865	874
85°	366	574	540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	3.0
10°-20°	189.2	8.7
20°-30°	289.2	13.2
30°-40°	353.7	16.2
40°-50°	378.4	17.3
50°-60°	362.4	16.6
60°-70°	306.5	14.0
70°-80°	194.3	8.9
80°-90°	44.7	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°	543.9	24.9
0°-40°	897.6	41.1
0°-60°	1638.4	75.0
0°-90°	2184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	692	688	689	688	687	66
15°	669	668	671	671	671	189
25°	620	620	630	632	632	286
35°	552	555	566	574	579	345
45°	464	472	490	510	520	357
55°	359	370	406	440	455	320
65°	237	260	315	358	377	233
75°	107	151	216	214	208	117
85°	24	36	37	34	35	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	690.4	690.4	690.4	690.4	690.4
2.5°	693.8	690.4	691.5	690.4	688.1
5°	691.5	688.1	689.3	688.1	687.0
7.5°	689.3	685.9	687.0	685.9	685.9
10°	684.8	681.4	683.6	682.5	681.4
12.5°	678.0	675.7	678.0	676.9	676.9
15°	669.0	667.8	671.2	671.2	671.2
17.5°	659.9	658.8	663.3	663.3	663.3
20°	648.7	647.5	654.3	654.3	654.3
22.5°	635.1	634.0	643.0	643.0	643.0
25°	620.5	620.5	629.5	631.7	631.7
27.5°	605.8	605.8	615.9	619.3	619.3
30°	590.0	590.0	600.2	604.7	606.9
32.5°	570.8	573.1	584.4	590.0	592.3
35°	551.6	555.0	566.3	574.2	578.7
37.5°	531.3	534.7	548.3	557.3	562.9
40°	509.9	514.4	529.1	540.4	547.1
42.5°	486.2	493.0	509.9	524.6	533.6
45°	463.7	471.5	489.6	509.9	520.1
47.5°	438.8	447.9	468.2	494.1	504.3
50°	412.9	421.9	446.7	476.1	487.3
52.5°	386.9	397.1	426.4	458.0	471.5
55°	358.7	370.0	406.1	440.0	454.6
57.5°	329.4	342.9	383.6	419.7	435.5
60°	298.9	315.9	361.0	399.4	416.3
62.5°	267.4	287.7	338.4	379.0	397.1
65°	236.9	259.5	314.7	357.6	376.8
67.5°	204.2	232.4	291.1	337.3	355.4
70°	171.5	204.2	266.2	313.6	331.7
72.5°	138.8	178.2	241.4	284.3	284.3
75°	107.2	151.2	215.5	214.3	207.6
77.5°	81.2	126.3	177.1	151.2	152.3
80°	58.7	101.5	111.7	111.7	112.8
82.5°	39.5	77.8	72.2	71.1	73.3
85°	23.7	36.1	37.2	33.8	35.0
87.5°	11.3	12.4	10.2	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)