

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: P263405

Luminaire Tested: **24CZ-LD5-55-SQP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263405
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-LD5-55-SQP-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3245.0 lumens
Efficiency: N/A
Efficacy: 80.0 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

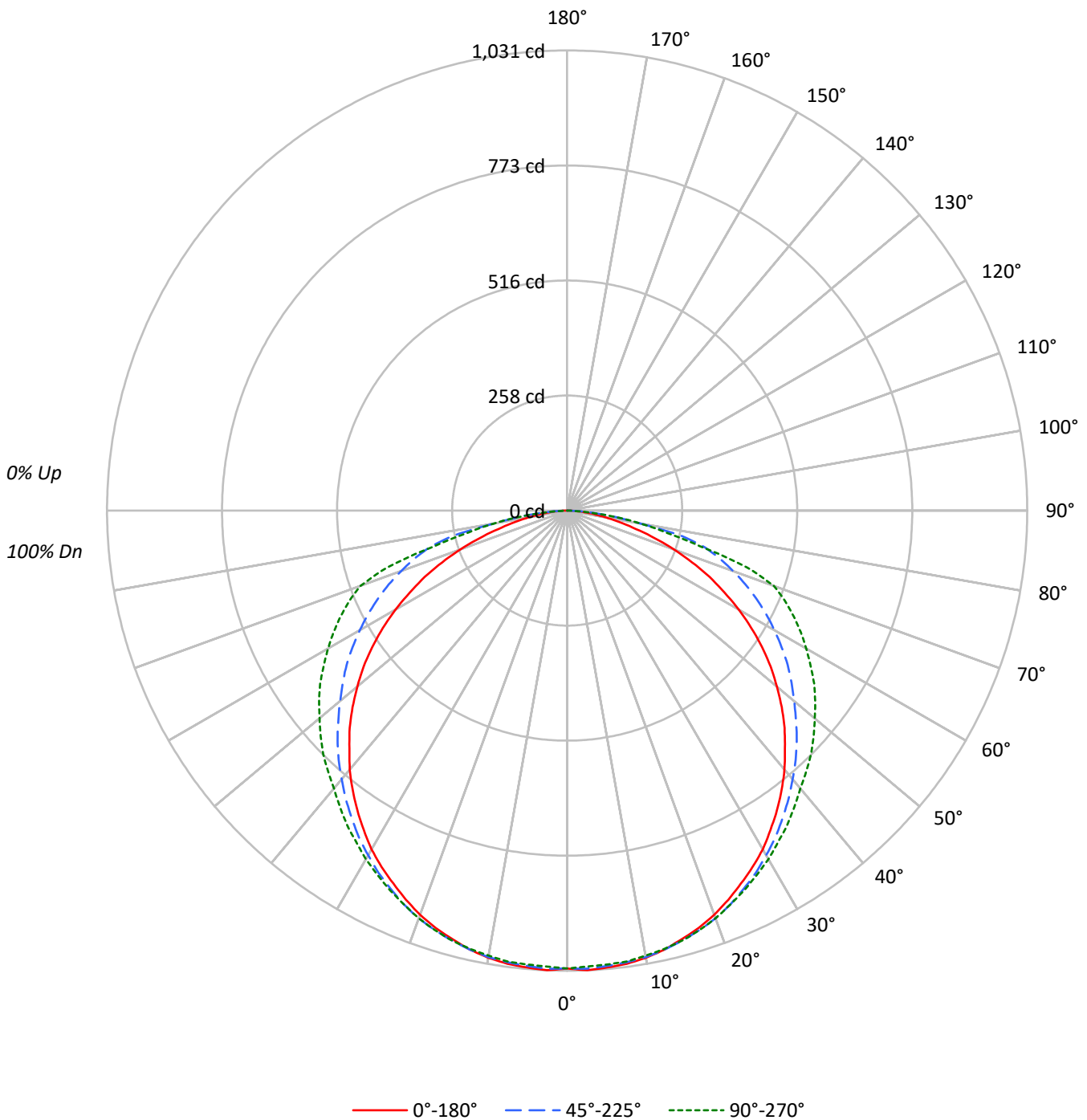
Input Watts (W): 40.548
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1380	1380	1380
5°	1388	1383	1379
10°	1390	1388	1383
15°	1385	1389	1389
20°	1380	1392	1392
25°	1369	1389	1393
30°	1362	1385	1401
35°	1346	1382	1412
40°	1331	1381	1428
45°	1311	1384	1470
50°	1284	1389	1516
55°	1250	1415	1585
60°	1195	1443	1664
65°	1121	1489	1782
70°	1002	1556	1939
75°	828	1664	1603
80°	676	1285	1299
85°	543	854	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.0
10°-20°	281.1	8.7
20°-30°	429.7	13.2
30°-40°	525.5	16.2
40°-50°	562.3	17.3
50°-60°	538.4	16.6
60°-70°	455.5	14.0
70°-80°	288.7	8.9
80°-90°	66.4	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°	808.2	24.9
0°-40°	1333.7	41.1
0°-60°	2434.4	75.0
0°-90°	3245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3245.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1028	1022	1024	1022	1021	98
15°	994	992	997	997	997	281
25°	922	922	935	939	939	425
35°	820	825	841	853	860	513
45°	689	701	728	758	773	531
55°	533	550	603	654	676	475
65°	352	386	468	531	560	347
75°	159	225	320	318	308	173
85°	35	54	55	50	52	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1025.8	1025.8	1025.8	1025.8	1025.8
2.5°	1030.8	1025.8	1027.5	1025.8	1022.5
5°	1027.5	1022.5	1024.1	1022.5	1020.8
7.5°	1024.1	1019.1	1020.8	1019.1	1019.1
10°	1017.4	1012.4	1015.7	1014.1	1012.4
12.5°	1007.4	1004.0	1007.4	1005.7	1005.7
15°	994.0	992.3	997.3	997.3	997.3
17.5°	980.5	978.9	985.6	985.6	985.6
20°	963.8	962.1	972.2	972.2	972.2
22.5°	943.7	942.0	955.4	955.4	955.4
25°	921.9	921.9	935.3	938.6	938.6
27.5°	900.1	900.1	915.2	920.2	920.2
30°	876.6	876.6	891.7	898.4	901.8
32.5°	848.1	851.5	868.2	876.6	880.0
35°	819.6	824.7	841.4	853.2	859.9
37.5°	789.5	794.5	814.6	828.0	836.4
40°	757.6	764.3	786.1	802.9	812.9
42.5°	722.4	732.5	757.6	779.4	792.8
45°	688.9	700.6	727.5	757.6	772.7
47.5°	652.0	665.4	695.6	734.2	749.2
50°	613.5	626.9	663.8	707.3	724.1
52.5°	574.9	590.0	633.6	680.5	700.6
55°	533.0	549.8	603.4	653.7	675.5
57.5°	489.4	509.6	569.9	623.5	647.0
60°	444.2	469.3	536.4	593.4	618.5
62.5°	397.2	427.4	502.8	563.2	590.0
65°	352.0	385.5	467.6	531.3	559.8
67.5°	303.4	345.3	432.4	501.2	528.0
70°	254.8	303.4	395.6	466.0	492.8
72.5°	206.2	264.8	358.7	422.4	422.4
75°	159.2	224.6	320.1	318.5	308.4
77.5°	120.7	187.7	263.2	224.6	226.3
80°	87.2	150.9	165.9	165.9	167.6
82.5°	58.7	115.7	107.3	105.6	108.9
85°	35.2	53.6	55.3	50.3	52.0
87.5°	16.8	18.4	15.1	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)