

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: P263559

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263559
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-45SE-RDP-UNV-L83050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3307.0 lumens
Efficiency: N/A
Efficacy: 92.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

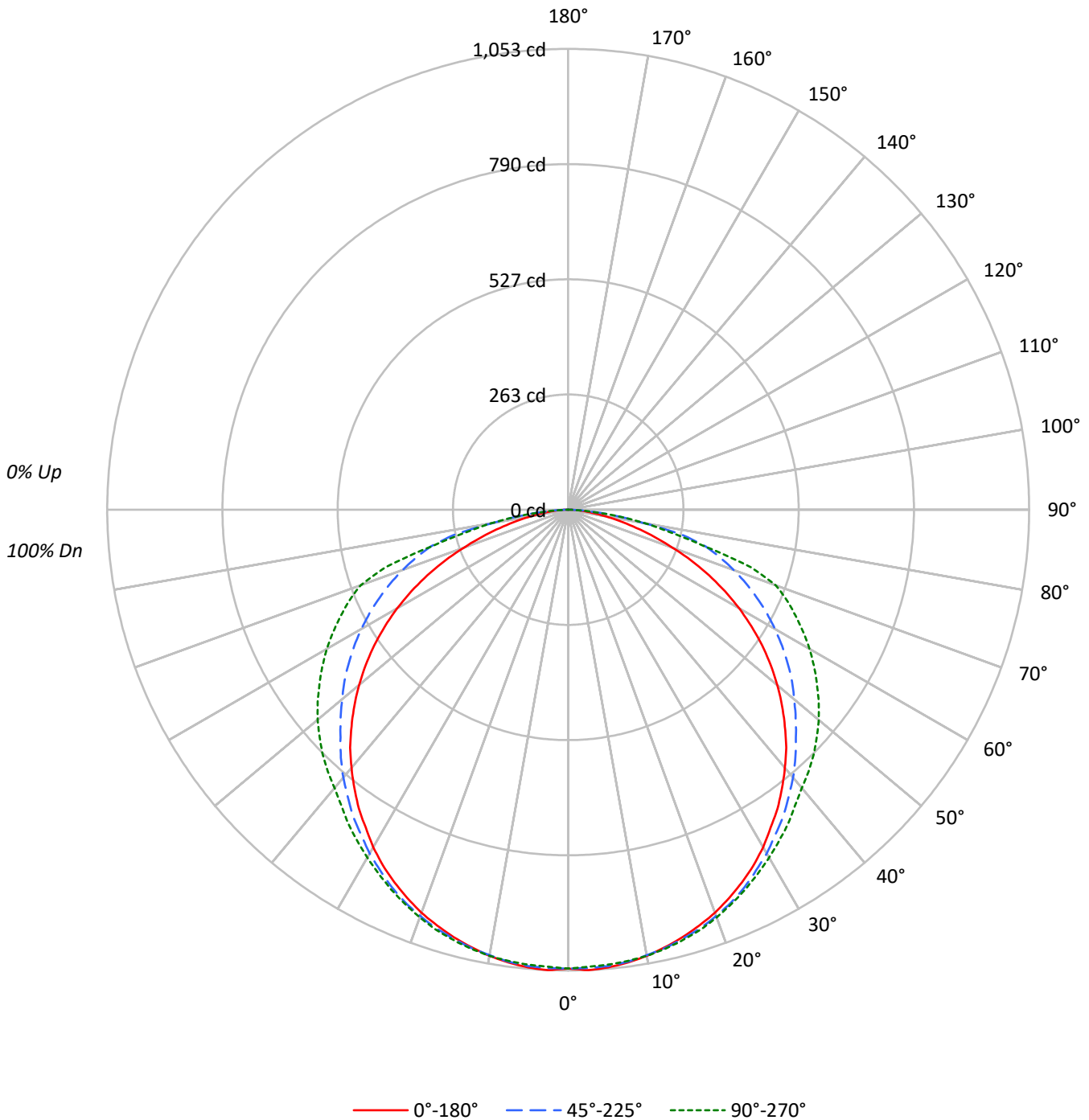
Input Watts (W): 35.772264
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	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	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	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°	1410	1410	1410
5°	1418	1414	1409
10°	1414	1412	1414
15°	1408	1413	1417
20°	1403	1415	1420
25°	1394	1414	1421
30°	1383	1409	1426
35°	1369	1407	1439
40°	1352	1404	1458
45°	1332	1400	1509
50°	1305	1411	1564
55°	1268	1436	1627
60°	1213	1467	1713
65°	1130	1513	1824
70°	999	1582	1985
75°	838	1693	1667
80°	669	1337	1388
85°	528	905	829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	3.0
10°-20°	286.2	8.7
20°-30°	437.1	13.2
30°-40°	534.4	16.2
40°-50°	572.0	17.3
50°-60°	548.6	16.6
60°-70°	463.2	14.0
70°-80°	296.1	9.0
80°-90°	70.0	2.1
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°	822.7	24.9
0°-40°	1357.1	41.0
0°-60°	2477.7	74.9
0°-90°	3307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1050	1044	1047	1045	1044	100
15°	1011	1008	1014	1017	1017	285
25°	939	938	952	956	957	433
35°	834	840	856	868	876	521
45°	700	711	736	770	793	540
55°	540	558	612	667	694	482
65°	355	389	475	542	573	350
75°	161	230	326	332	321	174
85°	34	57	59	57	54	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1048.3	1048.3	1048.3	1048.3	1048.3
2.5°	1053.2	1046.7	1048.3	1048.3	1045.1
5°	1050.0	1043.5	1046.7	1045.1	1043.5
7.5°	1043.5	1038.6	1041.8	1041.8	1040.2
10°	1035.3	1030.4	1033.7	1035.3	1035.3
12.5°	1023.9	1020.7	1025.6	1025.6	1027.2
15°	1010.9	1007.6	1014.2	1017.4	1017.4
17.5°	996.3	994.6	1002.8	1004.4	1006.0
20°	980.0	978.3	988.1	988.1	991.4
22.5°	960.4	958.8	971.8	971.8	975.1
25°	939.3	937.7	952.3	955.6	957.2
27.5°	916.5	914.9	929.5	934.4	937.7
30°	890.4	890.4	906.7	913.2	918.1
32.5°	861.1	866.0	880.7	890.4	897.0
35°	833.5	840.0	856.3	867.7	875.8
37.5°	802.5	809.1	827.0	841.6	851.4
40°	770.0	778.1	799.3	815.6	830.2
42.5°	737.4	745.6	768.4	792.8	812.3
45°	700.0	711.4	735.8	770.0	792.8
47.5°	662.5	673.9	704.9	747.2	770.0
50°	623.5	636.5	673.9	722.8	747.2
52.5°	582.8	597.4	644.6	696.7	721.1
55°	540.5	558.4	612.1	667.4	693.5
57.5°	496.5	516.0	579.5	638.1	665.8
60°	450.9	475.3	545.3	607.2	636.5
62.5°	403.7	433.0	511.2	574.6	605.6
65°	354.9	389.1	475.3	542.1	573.0
67.5°	304.4	350.0	439.5	509.5	540.5
70°	253.9	307.7	402.1	473.7	504.6
72.5°	206.7	268.6	364.6	431.4	437.9
75°	161.2	229.5	325.6	332.1	320.7
77.5°	120.5	190.5	268.6	239.3	237.7
80°	86.3	153.0	172.6	177.4	179.1
82.5°	57.0	115.6	112.3	115.6	114.0
85°	34.2	57.0	58.6	57.0	53.7
87.5°	16.3	21.2	16.3	14.7	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)