

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: P263762

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263762
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-L82765-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: 3144.0 lumens
Efficiency: N/A
Efficacy: 89.0 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

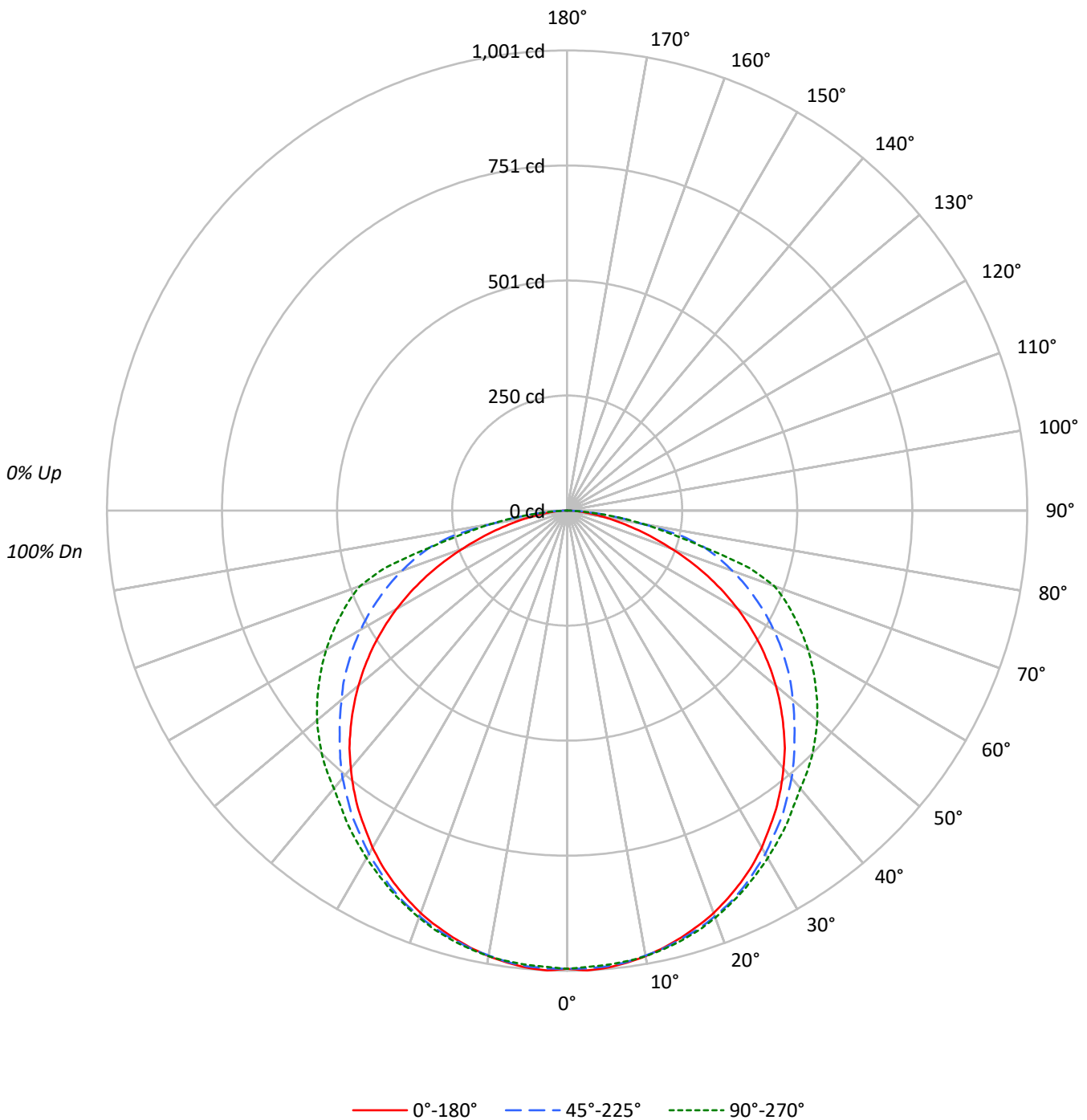
Input Watts (W): 35.34
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1341	1341	1341
5°	1348	1344	1340
10°	1345	1343	1345
15°	1339	1343	1347
20°	1334	1345	1350
25°	1326	1344	1351
30°	1315	1339	1356
35°	1302	1337	1368
40°	1286	1335	1386
45°	1266	1331	1434
50°	1241	1341	1487
55°	1205	1365	1547
60°	1154	1395	1628
65°	1074	1439	1734
70°	950	1504	1888
75°	796	1609	1585
80°	635	1271	1319
85°	502	860	789



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.0
10°-20°	272.1	8.7
20°-30°	415.5	13.2
30°-40°	508.0	16.2
40°-50°	543.8	17.3
50°-60°	521.6	16.6
60°-70°	440.4	14.0
70°-80°	281.5	9.0
80°-90°	66.6	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°	782.1	24.9
0°-40°	1290.2	41.0
0°-60°	2355.6	74.9
0°-90°	3144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	997	997	997	997	997	
5°	998	992	995	994	992	95
15°	961	958	964	967	967	271
25°	893	891	905	908	910	412
35°	792	799	814	825	833	495
45°	666	676	700	732	754	513
55°	514	531	582	634	659	459
65°	337	370	452	515	545	333
75°	153	218	310	316	305	165
85°	32	54	56	54	51	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	996.7	996.7	996.7	996.7	996.7
2.5°	1001.3	995.1	996.7	996.7	993.6
5°	998.2	992.0	995.1	993.6	992.0
7.5°	992.0	987.4	990.5	990.5	988.9
10°	984.3	979.7	982.7	984.3	984.3
12.5°	973.5	970.4	975.0	975.0	976.6
15°	961.1	958.0	964.2	967.3	967.3
17.5°	947.2	945.6	953.3	954.9	956.4
20°	931.7	930.1	939.4	939.4	942.5
22.5°	913.1	911.6	923.9	923.9	927.0
25°	893.0	891.4	905.4	908.5	910.0
27.5°	871.3	869.8	883.7	888.3	891.4
30°	846.6	846.6	862.0	868.2	872.9
32.5°	818.7	823.3	837.3	846.6	852.7
35°	792.4	798.6	814.1	824.9	832.6
37.5°	763.0	769.2	786.2	800.1	809.4
40°	732.0	739.8	759.9	775.4	789.3
42.5°	701.1	708.8	730.5	753.7	772.3
45°	665.5	676.3	699.5	732.0	753.7
47.5°	629.9	640.7	670.1	710.4	732.0
50°	592.7	605.1	640.7	687.1	710.4
52.5°	554.1	568.0	612.9	662.4	685.6
55°	513.8	530.8	581.9	634.5	659.3
57.5°	472.0	490.6	551.0	606.7	633.0
60°	428.7	451.9	518.5	577.3	605.1
62.5°	383.8	411.7	486.0	546.3	575.7
65°	337.4	369.9	451.9	515.4	544.8
67.5°	289.4	332.7	417.9	484.4	513.8
70°	241.4	292.5	382.3	450.4	479.8
72.5°	196.5	255.4	346.7	410.1	446.3
75°	153.2	218.2	309.5	315.7	304.9
77.5°	114.5	181.1	255.4	227.5	226.0
80°	82.0	145.5	164.0	168.7	170.2
82.5°	54.2	109.9	106.8	109.9	108.3
85°	32.5	54.2	55.7	54.2	51.1
87.5°	15.5	20.1	15.5	13.9	12.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)