

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: P263902

Luminaire Tested: **24CZ-LD5-45SE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263902
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-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2989.0 lumens
Efficiency: N/A
Efficacy: 81.6 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

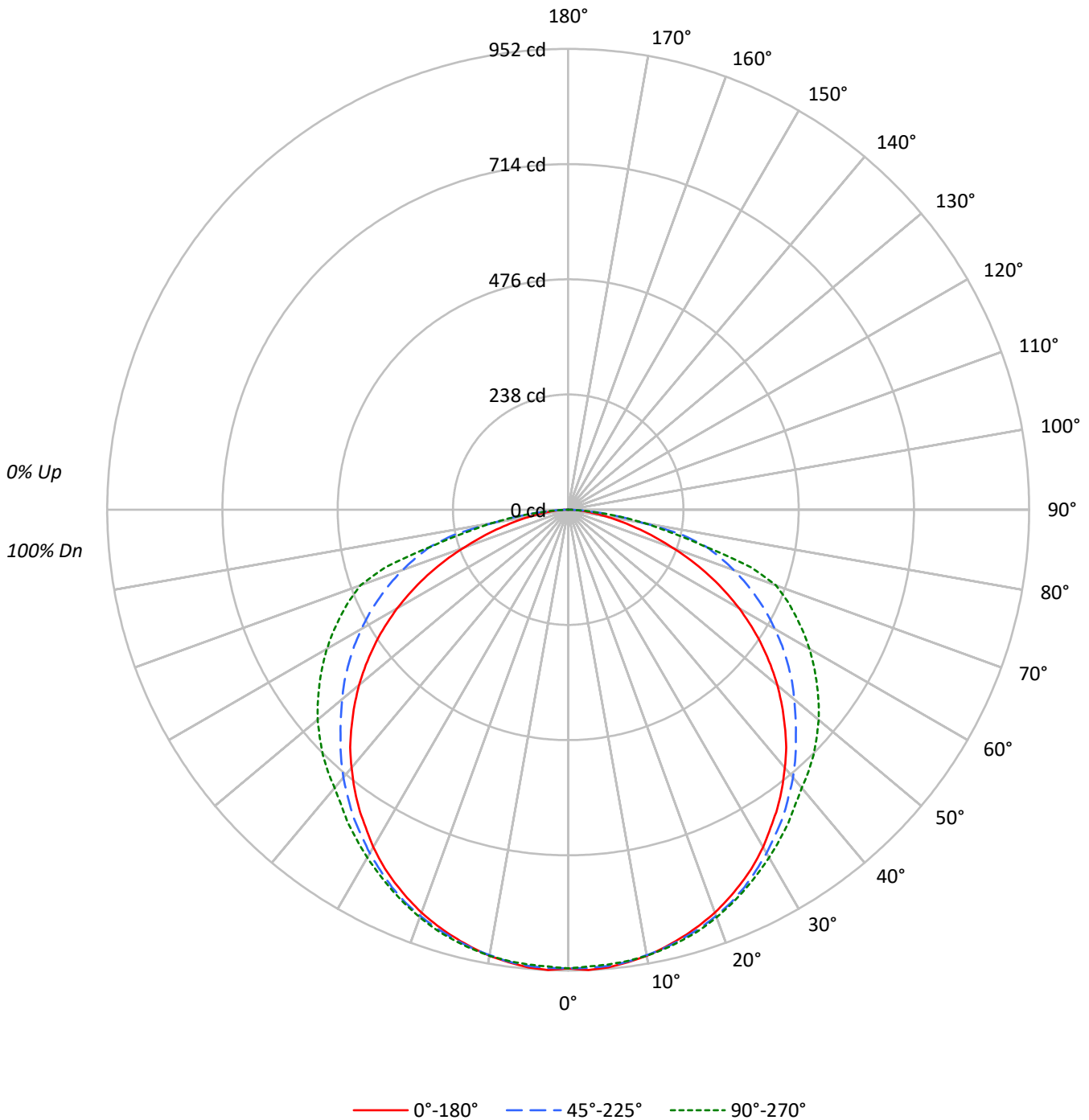
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1275	1275	1275
5°	1282	1278	1274
10°	1279	1276	1279
15°	1273	1277	1281
20°	1268	1279	1283
25°	1260	1278	1284
30°	1250	1273	1289
35°	1237	1271	1300
40°	1222	1269	1318
45°	1204	1265	1363
50°	1180	1275	1414
55°	1146	1298	1470
60°	1097	1326	1548
65°	1021	1368	1649
70°	903	1430	1794
75°	757	1530	1507
80°	604	1209	1254
85°	477	818	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.9	3.0
10°-20°	258.6	8.7
20°-30°	395.1	13.2
30°-40°	483.0	16.2
40°-50°	517.0	17.3
50°-60°	495.9	16.6
60°-70°	418.7	14.0
70°-80°	267.6	9.0
80°-90°	63.3	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°	743.6	24.9
0°-40°	1226.6	41.0
0°-60°	2239.4	74.9
0°-90°	2989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2989.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	948	948	948	948	948	
5°	949	943	946	945	943	90
15°	914	911	917	920	920	258
25°	849	848	861	864	865	391
35°	753	759	774	784	792	471
45°	633	643	665	696	716	488
55°	488	505	553	603	627	436
65°	321	352	430	490	518	316
75°	146	208	294	300	290	157
85°	31	52	53	52	49	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	947.5	947.5	947.5	947.5	947.5
2.5°	952.0	946.1	947.5	947.5	944.6
5°	949.0	943.1	946.1	944.6	943.1
7.5°	943.1	938.7	941.7	941.7	940.2
10°	935.8	931.4	934.3	935.8	935.8
12.5°	925.5	922.5	926.9	926.9	928.4
15°	913.7	910.8	916.6	919.6	919.6
17.5°	900.5	899.0	906.3	907.8	909.3
20°	885.7	884.3	893.1	893.1	896.0
22.5°	868.1	866.6	878.4	878.4	881.3
25°	849.0	847.5	860.7	863.7	865.1
27.5°	828.4	826.9	840.1	844.5	847.5
30°	804.8	804.8	819.5	825.4	829.8
32.5°	778.3	782.7	796.0	804.8	810.7
35°	753.3	759.2	773.9	784.2	791.6
37.5°	725.4	731.3	747.4	760.7	769.5
40°	695.9	703.3	722.4	737.1	750.4
42.5°	666.5	673.9	694.5	716.5	734.2
45°	632.7	643.0	665.0	695.9	716.5
47.5°	598.8	609.1	637.1	675.3	695.9
50°	563.5	575.3	609.1	653.3	675.3
52.5°	526.7	540.0	582.6	629.7	651.8
55°	488.5	504.7	553.2	603.2	626.8
57.5°	448.8	466.4	523.8	576.8	601.8
60°	407.6	429.6	492.9	548.8	575.3
62.5°	364.9	391.4	462.0	519.4	547.3
65°	320.8	351.6	429.6	490.0	517.9
67.5°	275.1	316.3	397.3	460.5	488.5
70°	229.5	278.1	363.4	428.2	456.1
72.5°	186.9	242.8	329.6	389.9	395.8
75°	145.7	207.5	294.3	300.2	289.9
77.5°	108.9	172.1	242.8	216.3	214.8
80°	78.0	138.3	156.0	160.4	161.8
82.5°	51.5	104.5	101.5	104.5	103.0
85°	30.9	51.5	53.0	51.5	48.6
87.5°	14.7	19.1	14.7	13.2	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)