

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: P263416

Luminaire Tested: **24CZ-LD5-60-SQP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263416
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-LD5-60-SQP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3691.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

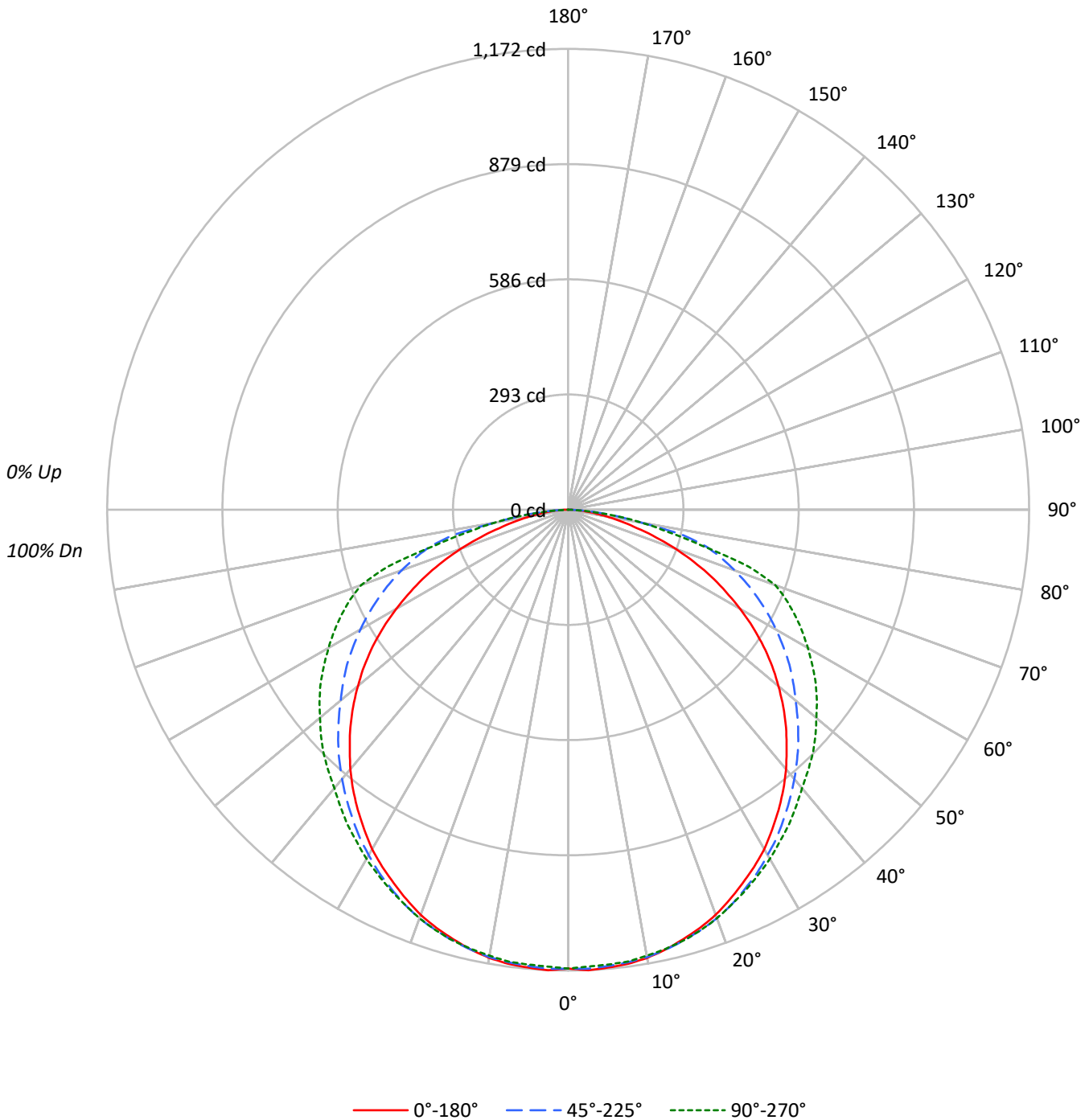
Input Watts (W): 45.291
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1570	1570	1570
5°	1578	1573	1568
10°	1581	1579	1573
15°	1575	1580	1580
20°	1570	1583	1583
25°	1557	1579	1585
30°	1549	1576	1594
35°	1531	1572	1606
40°	1514	1571	1624
45°	1491	1574	1672
50°	1461	1580	1724
55°	1422	1610	1802
60°	1359	1642	1893
65°	1275	1693	2027
70°	1140	1770	2205
75°	941	1893	1824
80°	768	1462	1478
85°	618	971	912



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.8	3.0
10°-20°	319.8	8.7
20°-30°	488.7	13.2
30°-40°	597.7	16.2
40°-50°	639.6	17.3
50°-60°	612.4	16.6
60°-70°	518.1	14.0
70°-80°	328.4	8.9
80°-90°	75.5	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°	919.3	24.9
0°-40°	1517.0	41.1
0°-60°	2769.0	75.0
0°-90°	3691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3691.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1167	1167	1167	1167	1167	
5°	1169	1163	1165	1163	1161	111
15°	1131	1129	1134	1134	1134	319
25°	1049	1049	1064	1068	1068	484
35°	932	938	957	970	978	583
45°	784	797	827	862	879	604
55°	606	625	686	744	768	541
65°	400	438	532	604	637	394
75°	181	256	364	362	351	197
85°	40	61	63	57	59	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.8	1166.8	1166.8	1166.8	1166.8
2.5°	1172.5	1166.8	1168.7	1166.8	1163.0
5°	1168.7	1163.0	1164.9	1163.0	1161.1
7.5°	1164.9	1159.2	1161.1	1159.2	1159.2
10°	1157.3	1151.5	1155.4	1153.4	1151.5
12.5°	1145.8	1142.0	1145.8	1143.9	1143.9
15°	1130.6	1128.7	1134.4	1134.4	1134.4
17.5°	1115.3	1113.4	1121.0	1121.0	1121.0
20°	1096.3	1094.3	1105.8	1105.8	1105.8
22.5°	1073.4	1071.5	1086.7	1086.7	1086.7
25°	1048.6	1048.6	1063.8	1067.7	1067.7
27.5°	1023.8	1023.8	1041.0	1046.7	1046.7
30°	997.1	997.1	1014.3	1021.9	1025.7
32.5°	964.7	968.5	987.6	997.1	1000.9
35°	932.3	938.0	957.1	970.4	978.0
37.5°	898.0	903.7	926.6	941.8	951.4
40°	861.8	869.4	894.2	913.2	924.7
42.5°	821.7	833.2	861.8	886.5	901.8
45°	783.6	796.9	827.4	861.8	878.9
47.5°	741.6	756.9	791.2	835.1	852.2
50°	697.8	713.0	755.0	804.6	823.6
52.5°	653.9	671.1	720.7	774.0	796.9
55°	606.3	625.3	686.3	743.5	768.3
57.5°	556.7	579.6	648.2	709.2	735.9
60°	505.2	533.8	610.1	674.9	703.5
62.5°	451.8	486.2	572.0	640.6	671.1
65°	400.4	438.5	531.9	604.4	636.8
67.5°	345.1	392.7	491.9	570.1	600.6
70°	289.8	345.1	449.9	530.0	560.5
72.5°	234.5	301.2	408.0	480.4	480.4
75°	181.1	255.5	364.1	362.2	350.8
77.5°	137.3	213.5	299.3	255.5	257.4
80°	99.1	171.6	188.7	188.7	190.7
82.5°	66.7	131.6	122.0	120.1	123.9
85°	40.0	61.0	62.9	57.2	59.1
87.5°	19.1	21.0	17.2	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)