

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: P263239

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263239
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-LD5-35-SQP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2435.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

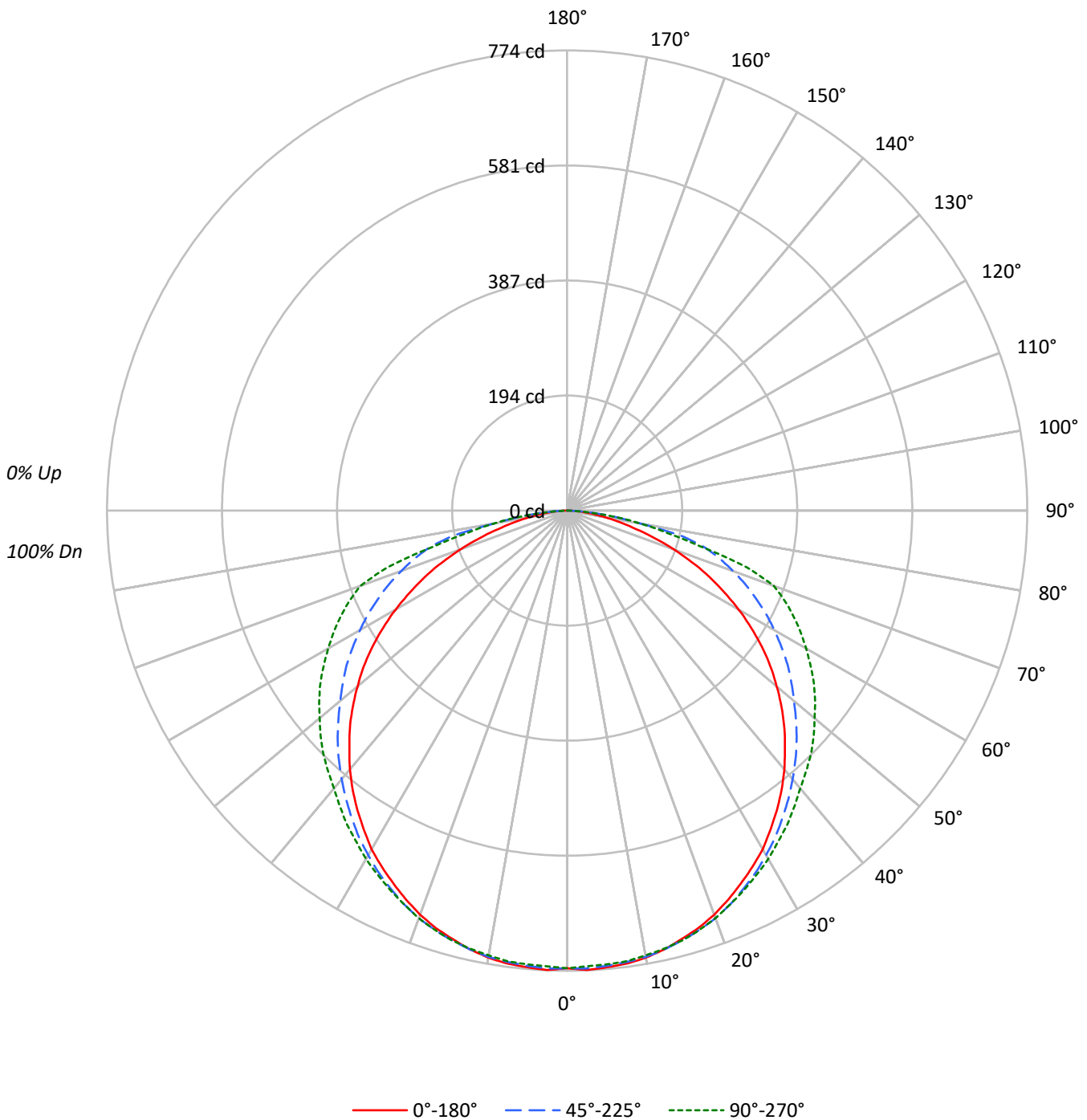
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1036	1036	1036
5°	1041	1038	1035
10°	1043	1041	1038
15°	1039	1042	1042
20°	1036	1045	1045
25°	1027	1042	1046
30°	1022	1040	1051
35°	1010	1037	1060
40°	999	1036	1071
45°	984	1039	1103
50°	964	1043	1137
55°	938	1062	1189
60°	897	1083	1249
65°	841	1117	1337
70°	752	1168	1455
75°	621	1249	1203
80°	507	965	975
85°	408	641	602



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	3.0
10°-20°	211.0	8.7
20°-30°	322.4	13.2
30°-40°	394.3	16.2
40°-50°	421.9	17.3
50°-60°	404.0	16.6
60°-70°	341.8	14.0
70°-80°	216.7	8.9
80°-90°	49.8	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°	606.5	24.9
0°-40°	1000.8	41.1
0°-60°	1826.7	75.0
0°-90°	2435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2435.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	770	770	770	770	770	
5°	771	767	768	767	766	73
15°	746	745	748	748	748	211
25°	692	692	702	704	704	319
35°	615	619	631	640	645	385
45°	517	526	546	568	580	398
55°	400	412	453	490	507	357
65°	264	289	351	399	420	260
75°	120	168	240	239	231	130
85°	26	40	42	38	39	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.7	769.7	769.7	769.7	769.7
2.5°	773.5	769.7	771.0	769.7	767.2
5°	771.0	767.2	768.5	767.2	766.0
7.5°	768.5	764.7	766.0	764.7	764.7
10°	763.5	759.7	762.2	760.9	759.7
12.5°	755.9	753.4	755.9	754.7	754.7
15°	745.9	744.6	748.4	748.4	748.4
17.5°	735.8	734.5	739.6	739.6	739.6
20°	723.2	722.0	729.5	729.5	729.5
22.5°	708.1	706.9	716.9	716.9	716.9
25°	691.8	691.8	701.8	704.3	704.3
27.5°	675.4	675.4	686.7	690.5	690.5
30°	657.8	657.8	669.1	674.2	676.7
32.5°	636.4	638.9	651.5	657.8	660.3
35°	615.0	618.8	631.4	640.2	645.2
37.5°	592.4	596.2	611.3	621.3	627.6
40°	568.5	573.5	589.9	602.5	610.0
42.5°	542.1	549.6	568.5	584.9	594.9
45°	516.9	525.7	545.9	568.5	579.8
47.5°	489.3	499.3	522.0	550.9	562.2
50°	460.3	470.4	498.1	530.8	543.4
52.5°	431.4	442.7	475.4	510.7	525.7
55°	400.0	412.5	452.8	490.5	506.9
57.5°	367.3	382.4	427.6	467.9	485.5
60°	333.3	352.2	402.5	445.2	464.1
62.5°	298.1	320.7	377.3	422.6	442.7
65°	264.1	289.3	350.9	398.7	420.1
67.5°	227.7	259.1	324.5	376.1	396.2
70°	191.2	227.7	296.8	349.7	369.8
72.5°	154.7	198.7	269.2	317.0	317.0
75°	119.5	168.5	240.2	239.0	231.4
77.5°	90.6	140.9	197.5	168.5	169.8
80°	65.4	113.2	124.5	124.5	125.8
82.5°	44.0	86.8	80.5	79.2	81.8
85°	26.4	40.2	41.5	37.7	39.0
87.5°	12.6	13.8	11.3	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)