

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: P263080

Luminaire Tested: **24CZ-LD5-35-SQP-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263080
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-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2469.0 lumens
Efficiency: N/A
Efficacy: 97.3 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

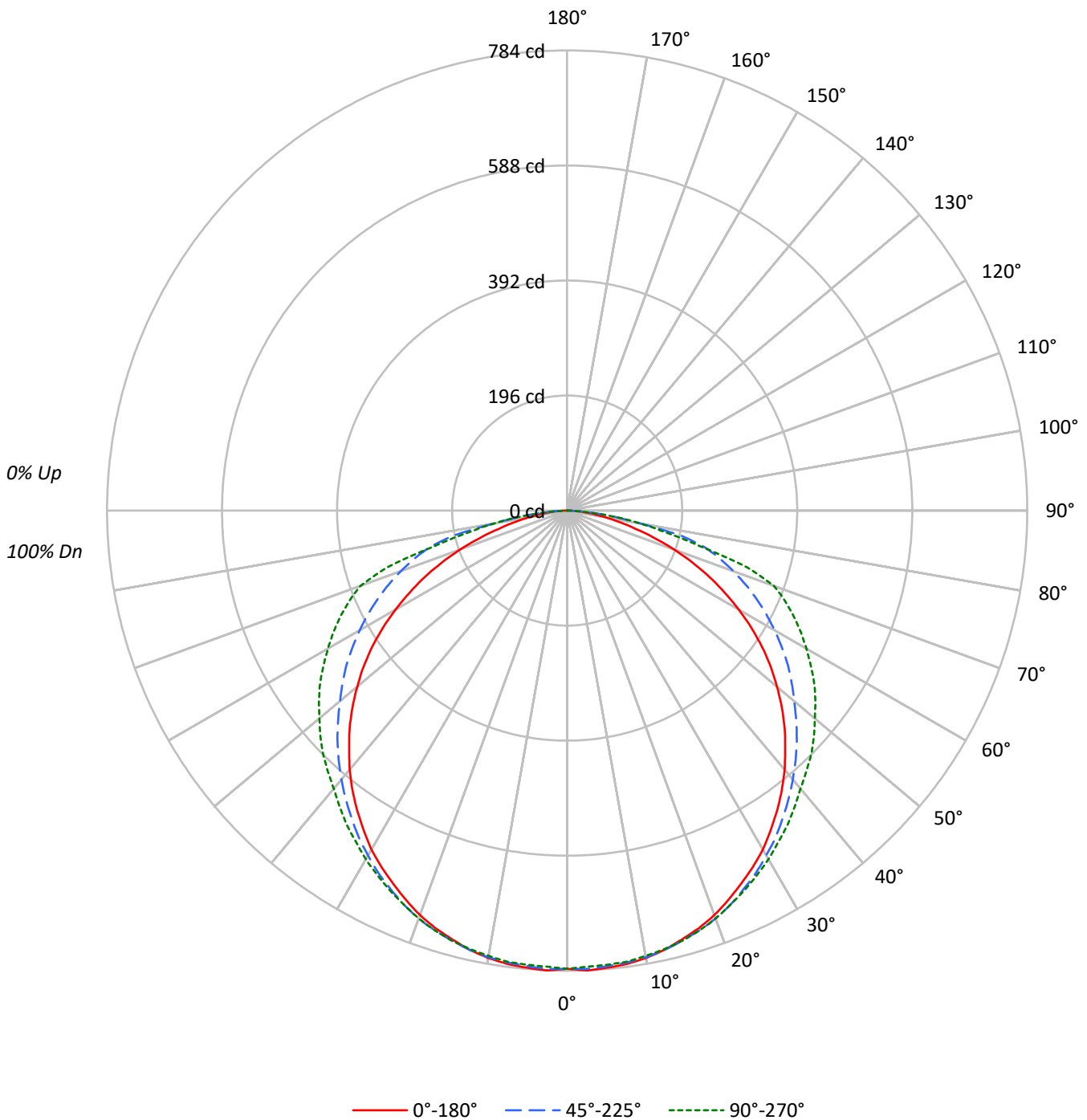
Input Watts (W): 25.36482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1050	1050	1050
5°	1056	1052	1049
10°	1058	1056	1052
15°	1053	1057	1057
20°	1050	1059	1059
25°	1041	1056	1060
30°	1036	1054	1066
35°	1024	1052	1075
40°	1012	1051	1086
45°	997	1053	1119
50°	977	1057	1153
55°	951	1077	1206
60°	910	1098	1266
65°	853	1133	1356
70°	762	1184	1475
75°	630	1266	1220
80°	514	979	988
85°	414	650	610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.1	3.0
10°-20°	213.9	8.7
20°-30°	326.9	13.2
30°-40°	399.8	16.2
40°-50°	427.8	17.3
50°-60°	409.7	16.6
60°-70°	346.5	14.0
70°-80°	219.7	8.9
80°-90°	50.5	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°	614.9	24.9
0°-40°	1014.8	41.1
0°-60°	1852.2	75.0
0°-90°	2469.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	782	778	779	778	777	74
15°	756	755	759	759	759	214
25°	701	701	712	714	714	324
35°	624	628	640	649	654	390
45°	524	533	554	576	588	404
55°	406	418	459	497	514	362
65°	268	293	356	404	426	264
75°	121	171	244	242	235	132
85°	27	41	42	38	40	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.5	780.5	780.5	780.5	780.5
2.5°	784.3	780.5	781.8	780.5	777.9
5°	781.8	777.9	779.2	777.9	776.7
7.5°	779.2	775.4	776.7	775.4	775.4
10°	774.1	770.3	772.8	771.6	770.3
12.5°	766.5	763.9	766.5	765.2	765.2
15°	756.3	755.0	758.8	758.8	758.8
17.5°	746.1	744.8	749.9	749.9	749.9
20°	733.3	732.0	739.7	739.7	739.7
22.5°	718.0	716.7	726.9	726.9	726.9
25°	701.4	701.4	711.6	714.2	714.2
27.5°	684.8	684.8	696.3	700.2	700.2
30°	667.0	667.0	678.5	683.6	686.1
32.5°	645.3	647.9	660.6	667.0	669.5
35°	623.6	627.5	640.2	649.1	654.2
37.5°	600.7	604.5	619.8	630.0	636.4
40°	576.4	581.5	598.1	610.9	618.5
42.5°	549.7	557.3	576.4	593.0	603.2
45°	524.2	533.1	553.5	576.4	587.9
47.5°	496.1	506.3	529.3	558.6	570.1
50°	466.8	477.0	505.0	538.2	550.9
52.5°	437.4	448.9	482.1	517.8	533.1
55°	405.6	418.3	459.1	497.4	514.0
57.5°	372.4	387.7	433.6	474.4	492.3
60°	338.0	357.1	408.1	451.5	470.6
62.5°	302.3	325.2	382.6	428.5	448.9
65°	267.8	293.3	355.8	404.3	426.0
67.5°	230.8	262.7	329.0	381.3	401.7
70°	193.8	230.8	301.0	354.5	374.9
72.5°	156.9	201.5	272.9	321.4	321.4
75°	121.2	170.9	243.6	242.3	234.7
77.5°	91.8	142.8	200.2	170.9	172.2
80°	66.3	114.8	126.3	126.3	127.5
82.5°	44.6	88.0	81.6	80.3	82.9
85°	26.8	40.8	42.1	38.3	39.5
87.5°	12.8	14.0	11.5	7.7	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)