

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: P263164

Luminaire Tested: **24CZ-LD5-45-SQP-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263164
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-LD5-45-SQP-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2725.6 lumens
Efficiency: N/A
Efficacy: 84.5 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

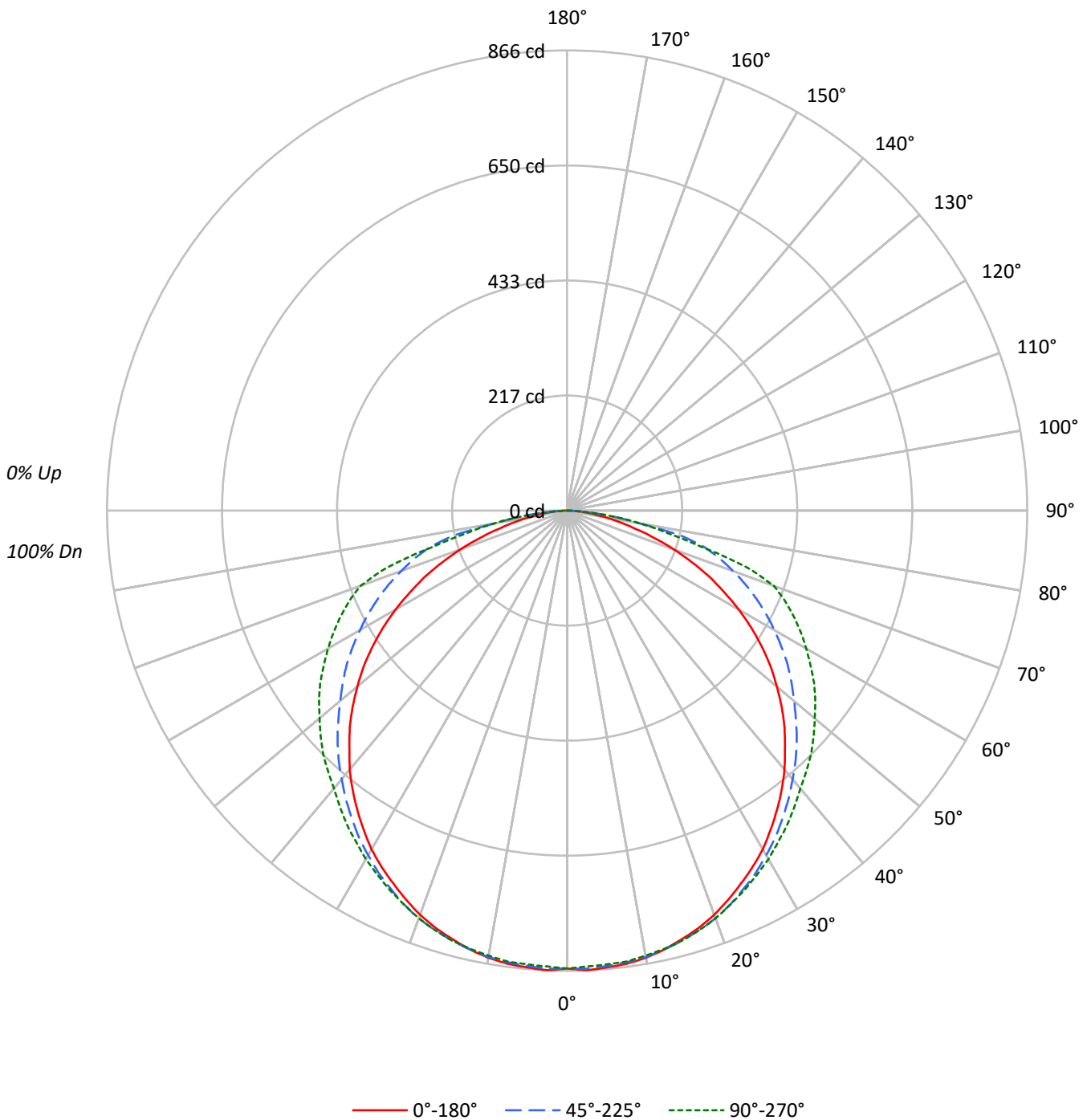
Input Watts (W): 32.251284
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1159	1159	1159
5°	1166	1162	1158
10°	1168	1166	1162
15°	1163	1167	1167
20°	1159	1169	1169
25°	1150	1166	1170
30°	1144	1164	1177
35°	1131	1161	1186
40°	1118	1160	1199
45°	1101	1163	1235
50°	1079	1167	1273
55°	1050	1189	1331
60°	1004	1212	1398
65°	941	1251	1497
70°	842	1307	1628
75°	695	1398	1346
80°	567	1080	1091
85°	457	718	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.0
10°-20°	236.1	8.7
20°-30°	360.9	13.2
30°-40°	441.4	16.2
40°-50°	472.3	17.3
50°-60°	452.2	16.6
60°-70°	382.6	14.0
70°-80°	242.5	8.9
80°-90°	55.8	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°	678.8	24.9
0°-40°	1120.2	41.1
0°-60°	2044.8	75.0
0°-90°	2725.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2725.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	863	859	860	859	857	82
15°	835	834	838	838	838	236
25°	774	774	786	788	788	357
35°	688	693	707	717	722	431
45°	579	588	611	636	649	446
55°	448	462	507	549	567	399
65°	296	324	393	446	470	291
75°	134	189	269	268	259	145
85°	30	45	46	42	44	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	861.6	861.6	861.6	861.6	861.6
2.5°	865.8	861.6	863.0	861.6	858.8
5°	863.0	858.8	860.2	858.8	857.4
7.5°	860.2	856.0	857.4	856.0	856.0
10°	854.6	850.4	853.2	851.8	850.4
12.5°	846.1	843.3	846.1	844.7	844.7
15°	834.9	833.5	837.7	837.7	837.7
17.5°	823.6	822.2	827.8	827.8	827.8
20°	809.5	808.1	816.6	816.6	816.6
22.5°	792.6	791.2	802.5	802.5	802.5
25°	774.3	774.3	785.6	788.4	788.4
27.5°	756.0	756.0	768.7	772.9	772.9
30°	736.3	736.3	749.0	754.6	757.4
32.5°	712.4	715.2	729.3	736.3	739.1
35°	688.4	692.7	706.7	716.6	722.2
37.5°	663.1	667.3	684.2	695.5	702.5
40°	636.4	642.0	660.3	674.4	682.8
42.5°	606.8	615.2	636.4	654.7	665.9
45°	578.6	588.5	611.0	636.4	649.0
47.5°	547.7	558.9	584.3	616.6	629.3
50°	515.3	526.5	557.5	594.1	608.2
52.5°	482.9	495.6	532.2	571.6	588.5
55°	447.7	461.8	506.8	549.1	567.4
57.5°	411.1	428.0	478.7	523.7	543.4
60°	373.1	394.2	450.5	498.4	519.5
62.5°	333.7	359.0	422.4	473.0	495.6
65°	295.7	323.8	392.8	446.3	470.2
67.5°	254.8	290.0	363.2	421.0	443.5
70°	214.0	254.8	332.3	391.4	413.9
72.5°	173.2	222.4	301.3	354.8	354.8
75°	133.7	188.7	268.9	267.5	259.0
77.5°	101.4	157.7	221.0	188.7	190.1
80°	73.2	126.7	139.4	139.4	140.8
82.5°	49.3	97.1	90.1	88.7	91.5
85°	29.6	45.1	46.5	42.2	43.6
87.5°	14.1	15.5	12.7	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)