

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: P263743

Luminaire Tested: **24CZ-LD5-35SE-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263743
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-LD5-35SE-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2414.0 lumens
Efficiency: N/A
Efficacy: 92.4 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

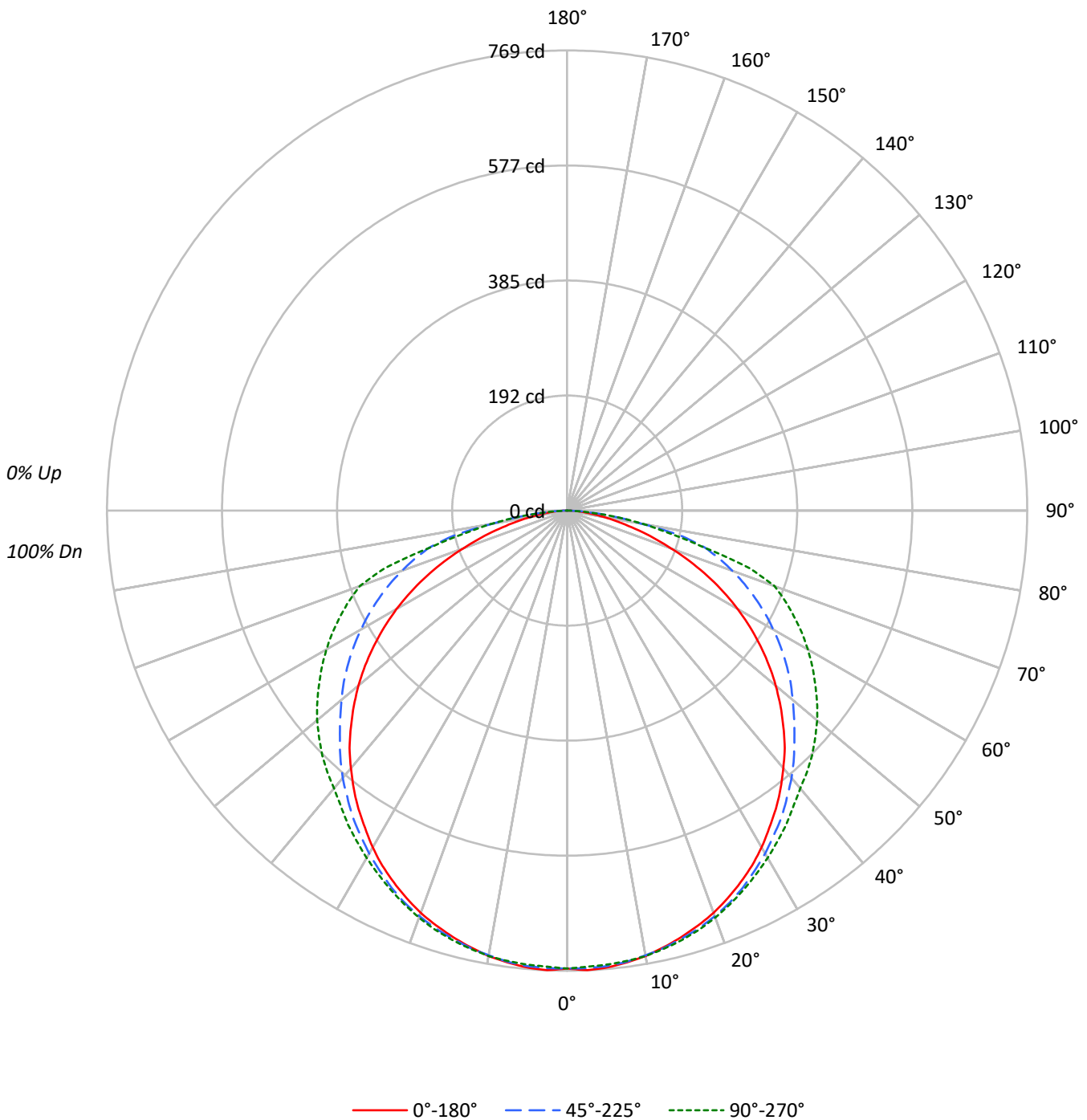
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1030	1030	1030
5°	1035	1032	1029
10°	1033	1031	1033
15°	1028	1031	1035
20°	1024	1033	1036
25°	1018	1032	1037
30°	1010	1028	1041
35°	999	1027	1050
40°	987	1025	1064
45°	972	1022	1101
50°	953	1030	1142
55°	925	1048	1187
60°	886	1071	1250
65°	825	1105	1332
70°	729	1155	1449
75°	611	1236	1217
80°	488	976	1013
85°	386	661	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.0
10°-20°	208.9	8.7
20°-30°	319.1	13.2
30°-40°	390.1	16.2
40°-50°	417.5	17.3
50°-60°	400.5	16.6
60°-70°	338.2	14.0
70°-80°	216.1	9.0
80°-90°	51.1	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°	600.5	24.9
0°-40°	990.6	41.0
0°-60°	1808.6	74.9
0°-90°	2414.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2414.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	766	762	764	763	762	73
15°	738	736	740	743	743	208
25°	686	684	695	698	699	316
35°	608	613	625	633	639	380
45°	511	519	537	562	579	394
55°	394	408	447	487	506	352
65°	259	284	347	396	418	255
75°	118	168	238	242	234	127
85°	25	42	43	42	39	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.3	765.3	765.3	765.3	765.3
2.5°	768.8	764.1	765.3	765.3	762.9
5°	766.4	761.7	764.1	762.9	761.7
7.5°	761.7	758.1	760.5	760.5	759.3
10°	755.8	752.2	754.6	755.8	755.8
12.5°	747.4	745.1	748.6	748.6	749.8
15°	737.9	735.6	740.3	742.7	742.7
17.5°	727.2	726.0	732.0	733.2	734.4
20°	715.4	714.2	721.3	721.3	723.7
22.5°	701.1	699.9	709.4	709.4	711.8
25°	685.6	684.5	695.1	697.5	698.7
27.5°	669.0	667.8	678.5	682.1	684.5
30°	650.0	650.0	661.9	666.6	670.2
32.5°	628.6	632.2	642.9	650.0	654.7
35°	608.4	613.2	625.0	633.4	639.3
37.5°	585.8	590.6	603.7	614.3	621.5
40°	562.1	568.0	583.4	595.3	606.0
42.5°	538.3	544.2	560.9	578.7	593.0
45°	511.0	519.3	537.1	562.1	578.7
47.5°	483.6	492.0	514.5	545.4	562.1
50°	455.1	464.6	492.0	527.6	545.4
52.5°	425.4	436.1	470.6	508.6	526.4
55°	394.5	407.6	446.8	487.2	506.2
57.5°	362.4	376.7	423.0	465.8	486.0
60°	329.2	347.0	398.1	443.2	464.6
62.5°	294.7	316.1	373.1	419.5	442.0
65°	259.0	284.0	347.0	395.7	418.3
67.5°	222.2	255.5	320.8	371.9	394.5
70°	185.4	224.6	293.5	345.8	368.4
72.5°	150.9	196.1	266.2	314.9	319.6
75°	117.6	167.5	237.7	242.4	234.1
77.5°	87.9	139.0	196.1	174.7	173.5
80°	63.0	111.7	126.0	129.5	130.7
82.5°	41.6	84.4	82.0	84.4	83.2
85°	25.0	41.6	42.8	41.6	39.2
87.5°	11.9	15.4	11.9	10.7	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)