

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: P345083

Luminaire Tested: **24CZ-35SE-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-35SE-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2997.2 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

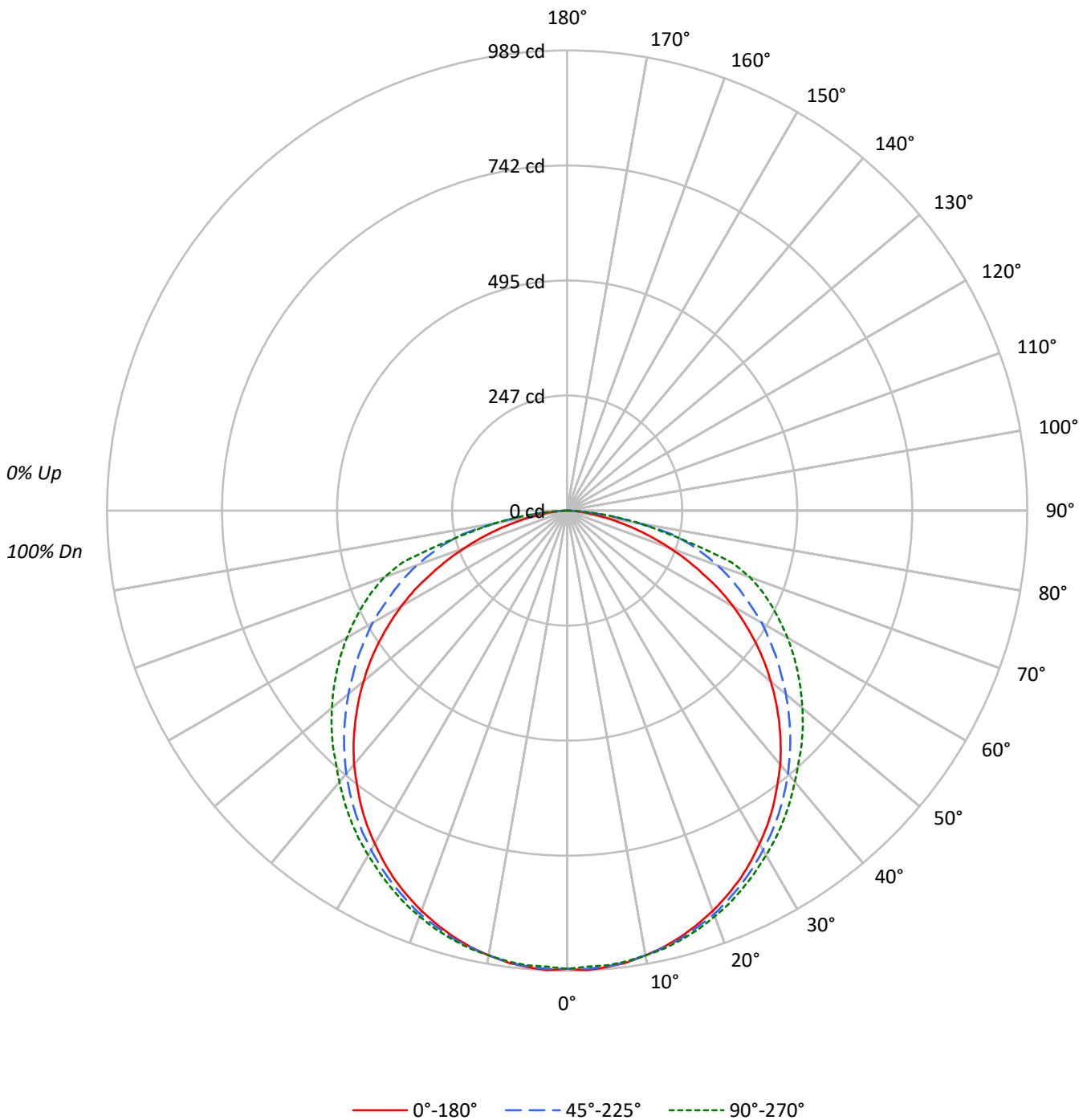
Input Watts (W): 28.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1325	1325	1325
5°	1330	1328	1325
10°	1326	1326	1326
15°	1320	1325	1329
20°	1311	1322	1329
25°	1300	1315	1329
30°	1285	1308	1329
35°	1270	1303	1333
40°	1252	1297	1337
45°	1226	1290	1356
50°	1196	1285	1381
55°	1160	1286	1418
60°	1109	1299	1472
65°	1026	1312	1545
70°	924	1354	1642
75°	781	1395	1469
80°	607	1194	1234
85°	435	812	713



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	3.1
10°-20°	268.0	8.9
20°-30°	407.6	13.6
30°-40°	495.2	16.5
40°-50°	522.7	17.4
50°-60°	491.1	16.4
60°-70°	404.3	13.5
70°-80°	254.7	8.5
80°-90°	60.1	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°	769.0	25.7
0°-40°	1264.2	42.2
0°-60°	2278.0	76.0
0°-90°	2997.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	985	985	985	985	985	
5°	985	980	984	982	981	94
15°	948	944	951	954	954	267
25°	876	874	886	891	895	403
35°	773	777	794	804	811	483
45°	644	655	678	697	713	497
55°	494	512	548	587	605	441
65°	322	353	412	465	485	320
75°	150	196	268	293	282	160
85°	28	48	53	49	46	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	984.8	984.8	984.8	984.8	984.8
2.5°	988.6	982.2	986.0	984.8	980.9
5°	984.8	979.6	983.5	982.2	980.9
7.5°	979.6	974.5	978.3	977.1	977.1
10°	970.6	966.8	970.6	970.6	970.6
12.5°	960.4	956.5	961.7	962.9	964.2
15°	947.5	943.7	951.4	953.9	953.9
17.5°	932.1	929.6	937.3	939.8	942.4
20°	915.4	914.1	923.1	925.7	928.3
22.5°	896.2	896.2	905.2	907.7	912.9
25°	875.6	874.3	885.9	891.0	894.9
27.5°	852.5	852.5	865.4	871.8	875.6
30°	826.8	829.4	842.2	849.9	855.1
32.5°	801.2	803.7	819.1	828.1	834.5
35°	772.9	776.8	793.5	803.7	811.4
37.5°	742.1	748.5	766.5	778.1	787.0
40°	712.6	717.7	738.2	751.1	761.4
42.5°	679.2	688.2	708.7	724.1	735.7
45°	644.5	654.8	677.9	697.2	712.6
47.5°	608.6	621.4	645.8	671.5	686.9
50°	571.3	585.5	613.7	644.5	659.9
52.5°	534.1	549.5	580.3	616.3	633.0
55°	494.3	512.3	548.2	586.7	604.7
57.5°	453.2	473.8	514.8	558.5	576.5
60°	412.1	434.0	482.8	526.4	546.9
62.5°	369.8	394.2	446.8	496.9	516.1
65°	322.3	353.1	412.1	464.8	485.3
67.5°	278.6	310.7	378.8	431.4	453.2
70°	235.0	272.2	344.1	396.7	417.3
72.5°	191.3	235.0	305.6	359.5	371.1
75°	150.2	196.4	268.3	292.7	282.5
77.5°	110.4	161.8	226.0	213.1	210.6
80°	78.3	128.4	154.1	155.4	159.2
82.5°	50.1	95.0	100.1	101.4	102.7
85°	28.2	47.5	52.6	48.8	46.2
87.5°	12.8	15.4	12.8	9.0	7.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)