

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: SHAPER

Report Number: P25982

Luminaire Tested: **682-11-WP-L0/830-UNV-NBZ**

Test Date: 04/06/15

Test Information

Test Method: LM-79-08
Report Number: P25982
Test Lab: INNOVATION CENTER-P2
Test Date: 04/06/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 682-11-WP-L0/830-UNV-NBZ
Description: SHAPER OUTDOOR VERTICAL MOUNT DOWNLIGHT
Light Source: (14) 3000K METROSPEC LEDS
MLBBCT4A23KCS
Ballast/Driver: (1) ELECTRONIC DRIVER
LP1020-24-C0700

Summary

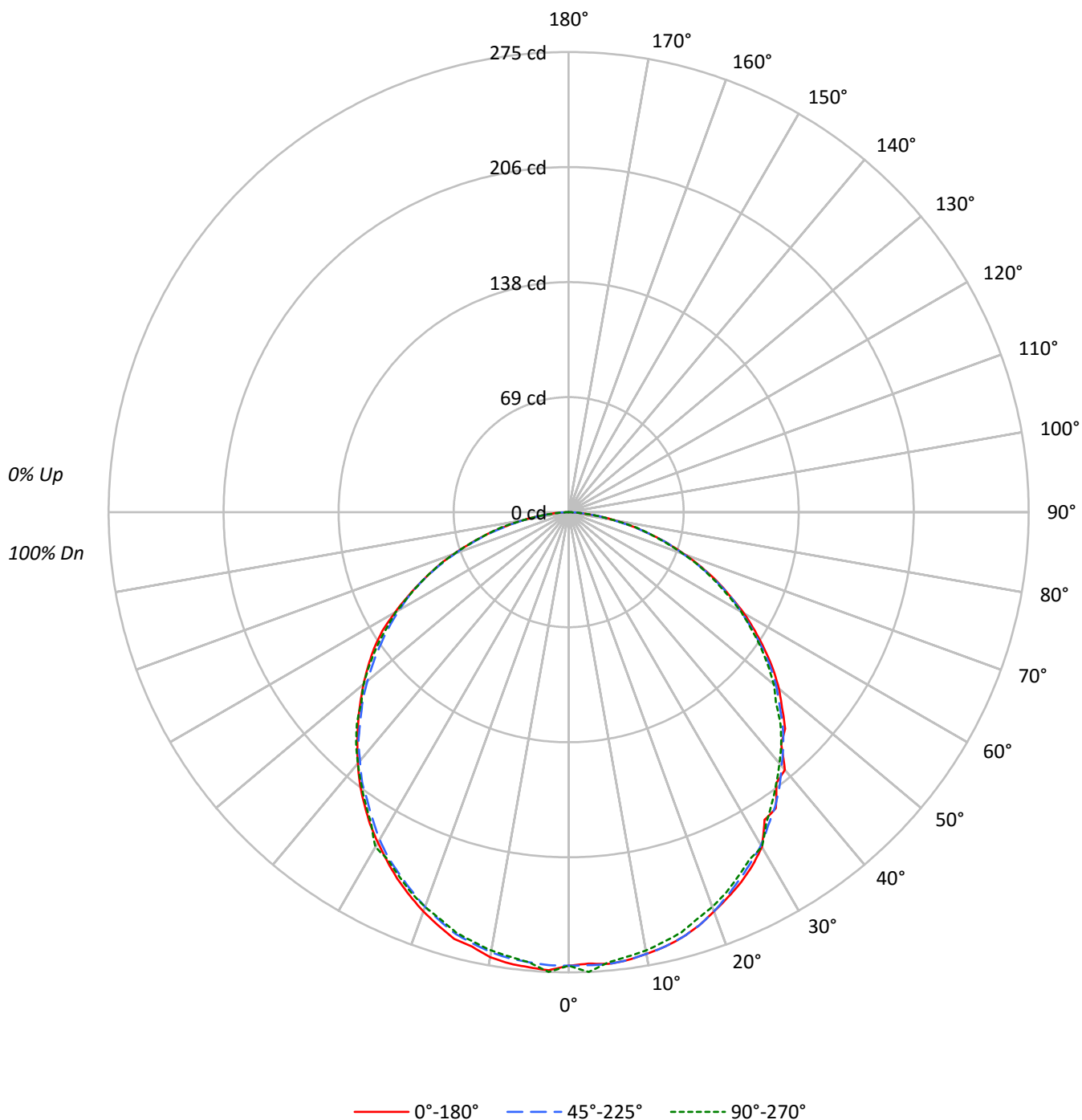
Lumens per Lamp: N/A
Luminaire Lumens: 767.0 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 0.92' x L: 0.83' x H: 0')
CIE Type: Direct

Input Watts (W): 16.2
Input Voltage (V): 119.96
Input Current (Ain): 0.13705
Voltage Rise (V): NR
Power Factor: 0.9954
Total Harmonic Distortion (THDi): 12.9
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: HR
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	98	94	91		94	91	89		90
2	99	91	84	78	96	89	83	77	85	80	75		82	78	74		79
3	90	80	71	65	88	78	70	64	75	69	63		72	67	62		70
4	83	70	62	55	80	69	61	55	67	59	54		64	58	53		62
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51
7	65	51	43	36	63	51	42	36	49	41	36		48	41	36		46
8	60	47	38	32	59	46	38	32	45	37	32		44	37	32		42
9	56	43	35	29	55	42	34	29	41	34	29		40	34	29		39
10	53	40	32	26	52	39	32	26	38	31	26		37	31	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	3819	3819	3819
5°	3833	3819	3862
10°	3835	3806	3863
15°	3837	3793	3851
20°	3809	3764	3809
25°	3794	3731	3763
30°	3759	3759	3710
35°	3716	3647	3664
40°	3697	3605	3605
45°	3647	3567	3547
50°	3595	3507	3507
55°	3513	3439	3488
60°	3410	3354	3382
65°	3268	3201	3201
70°	3049	3008	3008
75°	2722	2722	2722
80°	2272	2191	2272
85°	1455	1455	1617

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.8	3.4
10°-20°	73.8	9.6
20°-30°	111.2	14.5
30°-40°	133.4	17.4
40°-50°	138.2	18.0
50°-60°	125.3	16.3
60°-70°	95.2	12.4
70°-80°	52.4	6.8
80°-90°	11.7	1.5
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°	210.8	27.5
0°-40°	344.2	44.9
0°-60°	607.7	79.2
0°-90°	767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	767.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	271	271	271	271	271	
5°	271	271	270	270	273	26
15°	263	263	260	261	264	74
25°	244	242	240	239	242	112
35°	216	215	212	210	213	134
45°	183	181	179	176	178	140
55°	143	141	140	137	142	128
65°	98	97	96	96	96	97
75°	50	50	50	49	50	53
85°	9	9	9	9	10	12
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	271	271	271	271	271	271	271	271	271	271	271
2.5°	270	271	273	271	269	271	272	277	273	271	275
5°	271	271	273	272	269	271	272	268	271	271	270
7.5°	270	270	272	271	268	270	271	271	271	270	268
10°	268	268	270	268	266	268	269	269	269	268	266
12.5°	266	263	263	266	263	266	266	266	266	265	263
15°	263	262	264	263	261	263	264	263	263	262	260
17.5°	259	257	259	258	259	259	260	259	259	258	255
20°	254	253	254	253	251	254	255	258	254	253	251
22.5°	249	247	248	248	245	248	249	248	248	247	246
25°	244	241	242	242	241	242	243	242	242	242	240
27.5°	238	235	236	236	234	236	236	236	236	235	234
30°	231	228	232	226	227	230	229	229	229	228	231
32.5°	218	221	221	222	220	222	222	222	222	221	220
35°	216	213	213	214	212	215	215	214	214	214	212
37.5°	204	206	206	206	205	207	210	206	206	206	204
40°	201	197	200	198	197	198	199	197	198	198	196
42.5°	188	189	188	189	188	190	190	189	189	189	188
45°	183	180	179	180	179	181	181	179	180	180	179
47.5°	173	171	170	171	170	171	172	171	170	171	168
50°	164	161	160	161	160	162	165	161	161	161	160
52.5°	154	151	153	151	150	152	152	151	151	151	150
55°	143	141	140	139	143	141	141	141	140	141	140
57.5°	132	130	130	130	130	130	130	130	129	131	129
60°	121	119	119	119	121	119	119	119	119	120	119
62.5°	109	108	107	108	108	109	108	108	107	108	107
65°	98	97	96	96	96	97	98	96	96	99	96
67.5°	86	85	85	85	85	85	85	85	84	85	85
70°	74	73	73	73	73	73	73	73	73	75	73
72.5°	62	61	61	61	61	62	62	61	61	62	61
75°	50	50	50	50	50	50	50	50	49	50	50
77.5°	39	38	38	38	38	38	38	38	38	38	40
80°	28	27	27	27	27	27	27	27	27	28	27
82.5°	18	18	18	17	18	18	17	17	17	17	17
85°	9	9	9	9	9	9	9	9	9	9	9
87.5°	3	3	3	3	3	3	3	3	3	3	3
90°	0	0	0	0	0	0	0	0	0	0	0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	271	271	271	271	271	271	271	271	271	271
2.5°	273	271	272	271	271	269	268	271	271	274
5°	273	271	272	272	270	269	268	271	271	273
7.5°	271	270	271	270	269	271	264	271	269	272
10°	269	268	268	267	267	266	265	267	267	270
12.5°	266	265	266	265	264	266	262	264	264	266
15°	264	262	263	262	261	261	260	261	261	264
17.5°	259	258	258	257	256	256	255	257	257	259
20°	250	254	254	252	251	252	250	252	249	254
22.5°	248	248	248	247	245	242	245	246	246	248
25°	243	242	242	241	239	240	239	240	240	242
27.5°	236	237	236	234	233	234	233	234	233	235
30°	229	229	229	227	226	227	226	226	226	228
32.5°	222	223	222	220	218	220	219	219	219	221
35°	214	215	214	212	210	212	211	212	211	213
37.5°	207	207	206	204	203	204	204	204	203	205
40°	198	199	194	195	194	196	195	195	195	196
42.5°	190	190	189	186	186	187	187	187	186	187
45°	181	181	180	177	176	178	178	177	177	178
47.5°	171	172	170	168	167	169	168	168	168	169
50°	162	162	160	158	157	159	159	159	159	160
52.5°	151	152	150	148	147	149	150	148	150	151
55°	141	141	139	137	137	139	141	141	141	142
57.5°	131	130	129	127	127	130	131	131	131	132
60°	119	119	118	116	117	122	120	118	119	120
62.5°	108	108	106	105	107	108	108	108	108	108
65°	97	96	95	95	96	96	96	96	96	96
67.5°	85	85	84	84	84	84	85	85	85	85
70°	74	73	73	72	72	73	73	73	73	73
72.5°	62	61	62	61	60	61	61	61	62	61
75°	50	49	50	49	49	49	49	50	50	50
77.5°	38	38	38	38	37	38	38	38	37	38
80°	27	27	27	27	27	27	27	27	28	28
82.5°	17	17	17	17	17	17	18	18	18	18
85°	9	9	9	9	9	9	9	9	10	10
87.5°	3	3	3	3	3	3	3	3	4	4
90°	0	0	0	0	0	0	0	0	0	0

(END OF REPORT)