

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: CORELITE

Report Number: P256939

Luminaire Tested: **HGL-S-BF-40L835-UNV-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P256939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1708-204-8)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: HGL-S-BF-40L835-UNV-4
Description: HUGO 4 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (168) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3383.1 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 4' x H: 0.01')
CIE Type: Direct

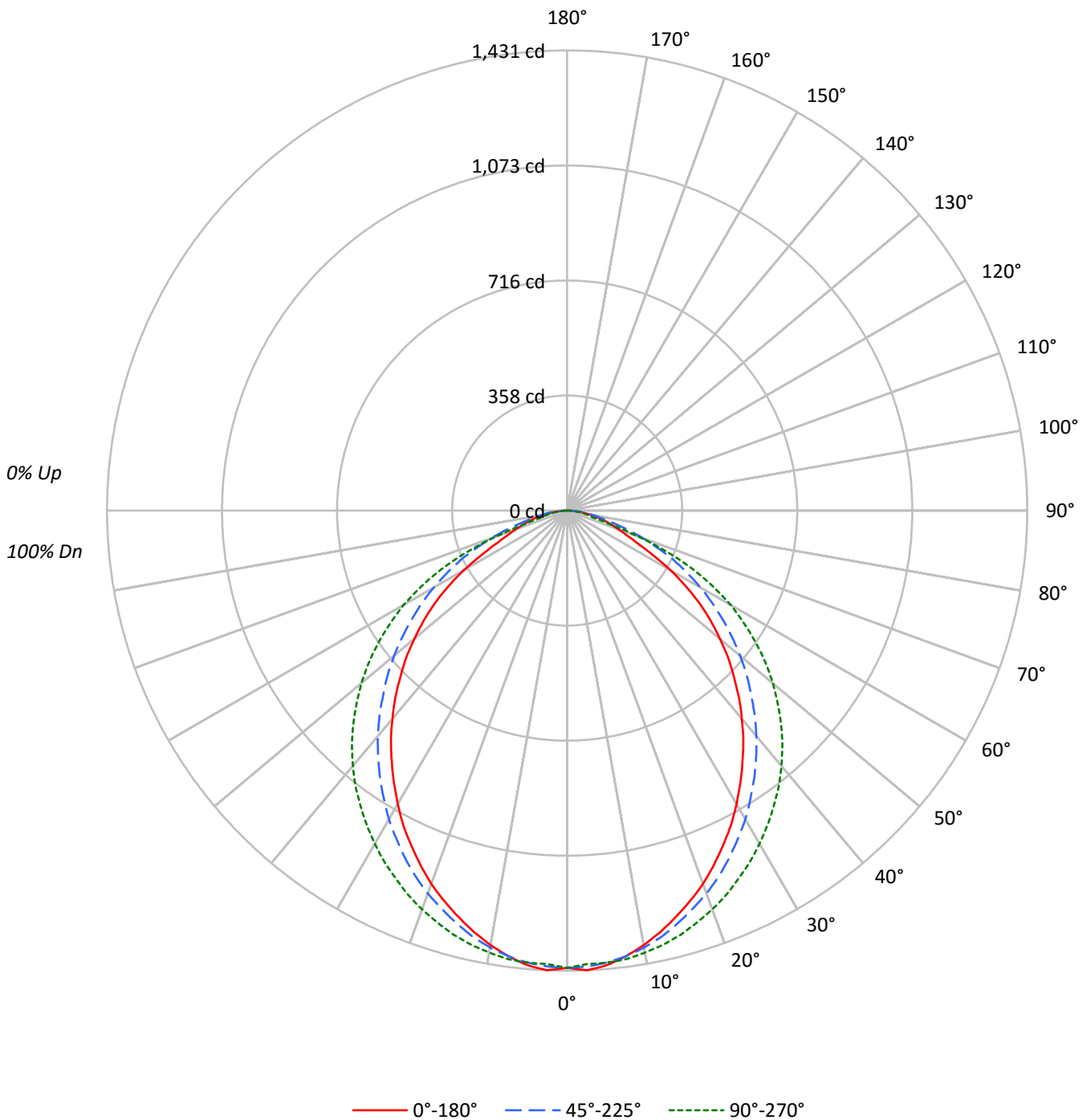
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88					86				
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75					73				
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64					62				
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56					54				
5	78	66	57	51	76	65	57	51	63	56	50	61	54	50	59	53	49					47				
6	72	59	51	45	70	59	50	45	57	50	44	55	49	44	54	48	43					41				
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39					37				
8	63	49	41	36	61	49	41	35	47	40	35	46	40	35	45	39	35					33				
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32					30				
10	55	42	34	29	54	42	34	29	41	34	29	40	33	29	39	33	29					27				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16694	16694	16694
5°	16724	16587	16571
10°	16351	16357	16512
15°	15887	16011	16406
20°	15426	15648	16231
25°	14854	15218	16022
30°	14264	14752	15822
35°	13613	14214	15583
40°	12927	13665	15327
45°	12155	13002	14970
50°	11289	12349	14495
55°	10236	11559	13812
60°	8701	10661	12817
65°	6663	9528	10986
70°	5763	7928	7109
75°	5300	5881	3324
80°	4721	4708	2840
85°	3943	3984	2121



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.6	3.9
10°-20°	374.7	11.1
20°-30°	549.6	16.2
30°-40°	637.4	18.8
40°-50°	631.0	18.7
50°-60°	532.5	15.7
60°-70°	345.1	10.2
70°-80°	139.6	4.1
80°-90°	38.7	1.1
90°-100°	0.9	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°	1057.9	31.3
0°-40°	1695.3	50.1
0°-60°	2858.8	84.5
0°-90°	3382.2	100.0
90°-120°	0.9	0.0
90°-150°	0.9	0.0
90°-180°	1.0	0.0
0°-180°	3383.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1422	1422	1422	1422	1422	
5°	1419	1405	1411	1410	1411	134
15°	1308	1301	1329	1352	1365	368
25°	1148	1148	1192	1229	1262	528
35°	951	958	1014	1068	1120	595
45°	734	750	808	877	941	566
55°	502	528	591	660	717	446
65°	241	279	367	411	432	250
75°	118	123	145	119	85	125
85°	30	35	41	33	24	33
90°	0	5	9	7	0	2
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.7	1421.7	1421.7	1421.7	1421.7
2.5°	1430.9	1415.1	1419.1	1416.4	1411.2
5°	1419.1	1404.6	1411.2	1409.9	1411.2
7.5°	1398.1	1386.3	1398.1	1402.0	1407.3
10°	1371.9	1362.7	1379.7	1388.9	1395.5
12.5°	1341.8	1333.9	1357.5	1371.9	1382.4
15°	1307.7	1301.1	1328.6	1352.2	1365.3
17.5°	1272.3	1267.1	1298.5	1328.6	1343.1
20°	1235.6	1230.4	1267.1	1297.2	1319.5
22.5°	1192.4	1189.8	1231.7	1263.1	1293.3
25°	1147.8	1147.8	1192.4	1229.1	1261.8
27.5°	1103.3	1103.3	1150.4	1191.1	1231.7
30°	1053.5	1057.4	1108.5	1153.1	1196.3
32.5°	1002.4	1008.9	1061.3	1111.1	1159.6
35°	951.3	957.8	1014.2	1067.9	1120.3
37.5°	900.2	909.4	965.7	1022.0	1081.0
40°	845.1	856.9	915.9	974.9	1036.5
42.5°	791.4	804.5	863.5	926.4	990.6
45°	733.8	749.5	808.5	876.6	940.8
47.5°	680.0	695.8	757.4	824.2	888.4
50°	619.8	639.4	702.3	771.8	834.7
52.5°	562.1	584.4	646.0	716.7	778.3
55°	501.8	528.1	590.9	660.4	716.7
57.5°	437.6	469.1	534.6	601.4	652.5
60°	372.1	410.1	479.6	541.2	587.0
62.5°	301.4	345.9	421.9	479.6	512.3
65°	241.1	279.1	366.9	411.4	432.4
67.5°	200.5	222.8	306.6	339.4	339.4
70°	169.0	180.8	251.6	259.4	231.9
72.5°	142.8	149.4	196.5	176.9	132.3
75°	117.9	123.2	145.4	119.2	85.2
77.5°	94.3	98.3	110.1	90.4	66.8
80°	70.8	76.0	82.5	69.4	52.4
82.5°	49.8	53.7	61.6	51.1	38.0
85°	30.1	35.4	40.6	32.8	23.6
87.5°	13.1	17.0	22.3	17.0	10.5
90°	0.0	5.2	9.2	6.6	0.0
92.5°	0.0	0.0	1.3	1.3	0.0
95°	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)