

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: P257011

Luminaire Tested: **HGL-S-BF-80L940-UNV-12**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257011
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-80L940-UNV-12
Description: HUGO 12 FOOT LINEAR LED LUMINAIRE WITH BAFFLE WITH FROSTED LENS
Light Source: (504) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15889.1 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.25 / 1.28
Luminous Opening: Rectangular w/ Sides (W: 0.23' x L: 12' x H: 0.01')
CIE Type: Direct

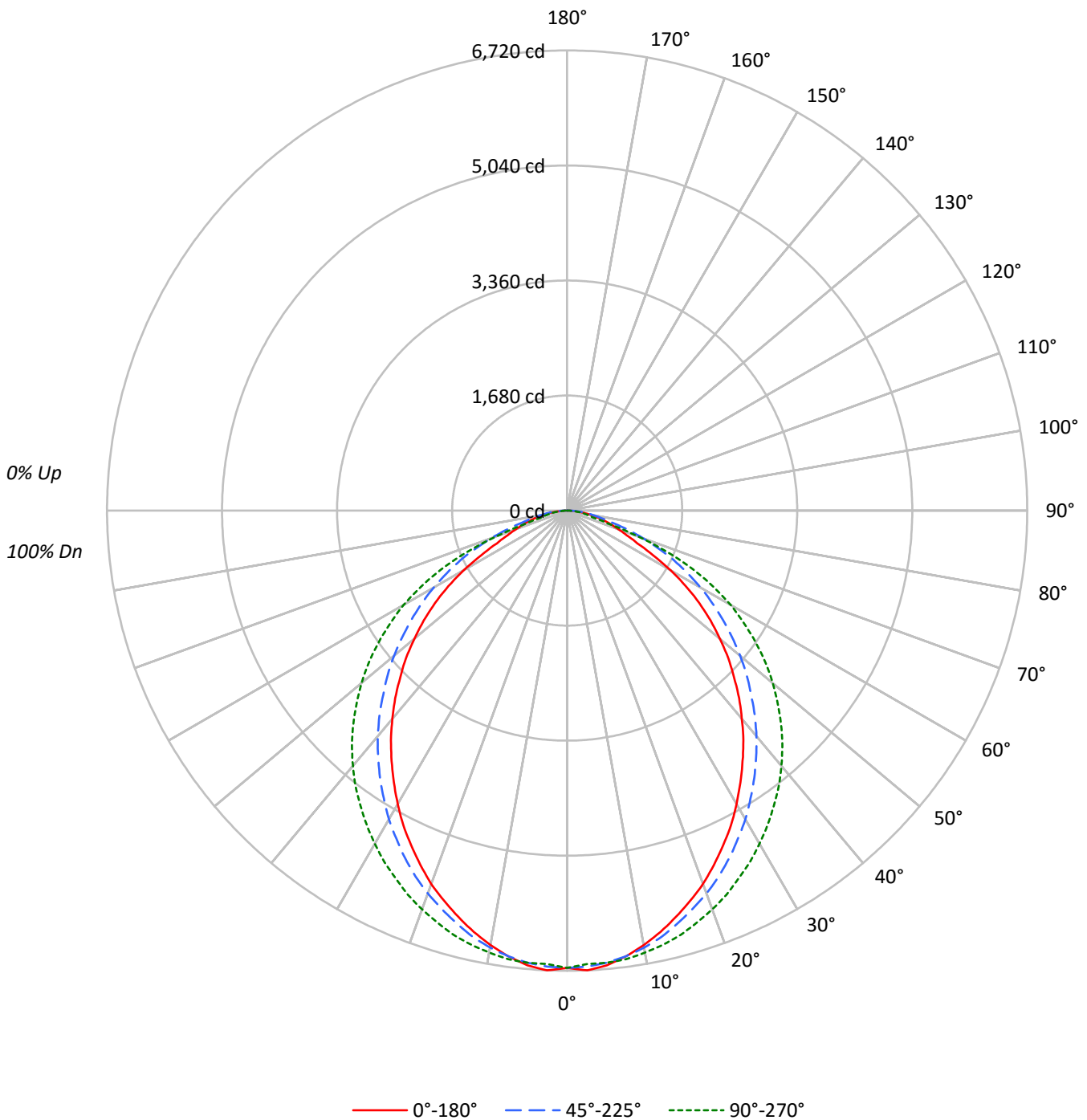
Input Watts (W): 212
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	26135	26135	26135
5°	26185	25970	25943
10°	25605	25614	25850
15°	24882	25075	25685
20°	24165	24507	25410
25°	23273	23836	25084
30°	22352	23111	24770
35°	21336	22270	24397
40°	20267	21414	23994
45°	19060	20377	23436
50°	17707	19360	22691
55°	16065	18126	21624
60°	13662	16722	20066
65°	10468	14951	17199
70°	9065	12447	11132
75°	8351	9246	5202
80°	7455	7416	4449
85°	6295	6303	3320



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.6	3.9
10°-20°	1759.8	11.1
20°-30°	2581.3	16.2
30°-40°	2993.4	18.8
40°-50°	2963.7	18.7
50°-60°	2500.8	15.7
60°-70°	1620.7	10.2
70°-80°	655.7	4.1
80°-90°	181.9	1.1
90°-100°	4.2	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°	4968.6	31.3
0°-40°	7962.0	50.1
0°-60°	13426.6	84.5
0°-90°	15884.9	100.0
90°-120°	4.2	0.0
90°-150°	4.2	0.0
90°-180°	4.0	0.0
0°-180°	15889.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6677	6677	6677	6677	6677	
5°	6665	6597	6628	6622	6628	629
15°	6142	6111	6240	6351	6412	1730
25°	5391	5391	5600	5772	5926	2482
35°	4468	4499	4763	5016	5262	2793
45°	3446	3520	3797	4117	4419	2660
55°	2357	2480	2776	3102	3366	2094
65°	1132	1311	1723	1932	2031	1175
75°	554	578	683	560	400	588
85°	142	166	191	154	111	156
90°	0	25	43	31	0	8
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°	6677.1	6677.1	6677.1	6677.1	6677.1
2.5°	6720.2	6646.3	6664.8	6652.5	6627.9
5°	6664.8	6597.1	6627.9	6621.7	6627.9
7.5°	6566.3	6510.9	6566.3	6584.8	6609.4
10°	6443.2	6400.2	6480.2	6523.2	6554.0
12.5°	6301.7	6264.8	6375.5	6443.2	6492.5
15°	6141.7	6110.9	6240.2	6350.9	6412.5
17.5°	5975.5	5950.9	6098.6	6240.2	6307.8
20°	5803.2	5778.6	5950.9	6092.5	6197.1
22.5°	5600.1	5587.8	5784.8	5932.5	6074.0
25°	5390.9	5390.9	5600.1	5772.5	5926.3
27.5°	5181.7	5181.7	5403.2	5594.0	5784.8
30°	4947.8	4966.3	5206.3	5415.5	5618.6
32.5°	4707.8	4738.6	4984.7	5218.6	5446.3
35°	4467.8	4498.6	4763.2	5015.5	5261.7
37.5°	4227.8	4270.9	4535.5	4800.1	5077.0
40°	3969.3	4024.7	4301.6	4578.6	4867.8
42.5°	3717.0	3778.6	4055.5	4350.9	4652.4
45°	3446.2	3520.1	3797.0	4117.0	4418.6
47.5°	3193.9	3267.8	3557.0	3870.9	4172.4
50°	2910.8	3003.2	3298.5	3624.7	3920.1
52.5°	2640.1	2744.7	3033.9	3366.2	3655.5
55°	2357.0	2480.1	2775.5	3101.6	3366.2
57.5°	2055.4	2203.1	2510.8	2824.7	3064.7
60°	1747.7	1926.2	2252.4	2541.6	2757.0
62.5°	1415.4	1624.7	1981.6	2252.4	2406.2
65°	1132.3	1310.8	1723.1	1932.4	2030.8
67.5°	941.6	1046.2	1440.0	1593.9	1593.9
70°	793.9	849.3	1181.6	1218.5	1089.3
72.5°	670.8	701.6	923.1	830.8	621.6
75°	553.9	578.5	683.1	560.0	400.0
77.5°	443.1	461.5	516.9	424.6	313.9
80°	332.3	356.9	387.7	326.2	246.2
82.5°	233.9	252.3	289.2	240.0	178.5
85°	141.5	166.2	190.8	153.8	110.8
87.5°	61.5	80.0	104.6	80.0	49.2
90°	0.0	24.6	43.1	30.8	0.0
92.5°	0.0	0.0	6.2	6.2	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)