

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: NEO-RAY

Report Number: P243714

Luminaire Tested: **S125DR-H375D930-X4F0-XX-UDD-D-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243714
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-56)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H375D930-X4F0-XX-UDD-D-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN DROP DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1146.7 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.39' x L: 3.88' x H: 0.08')
CIE Type: Direct

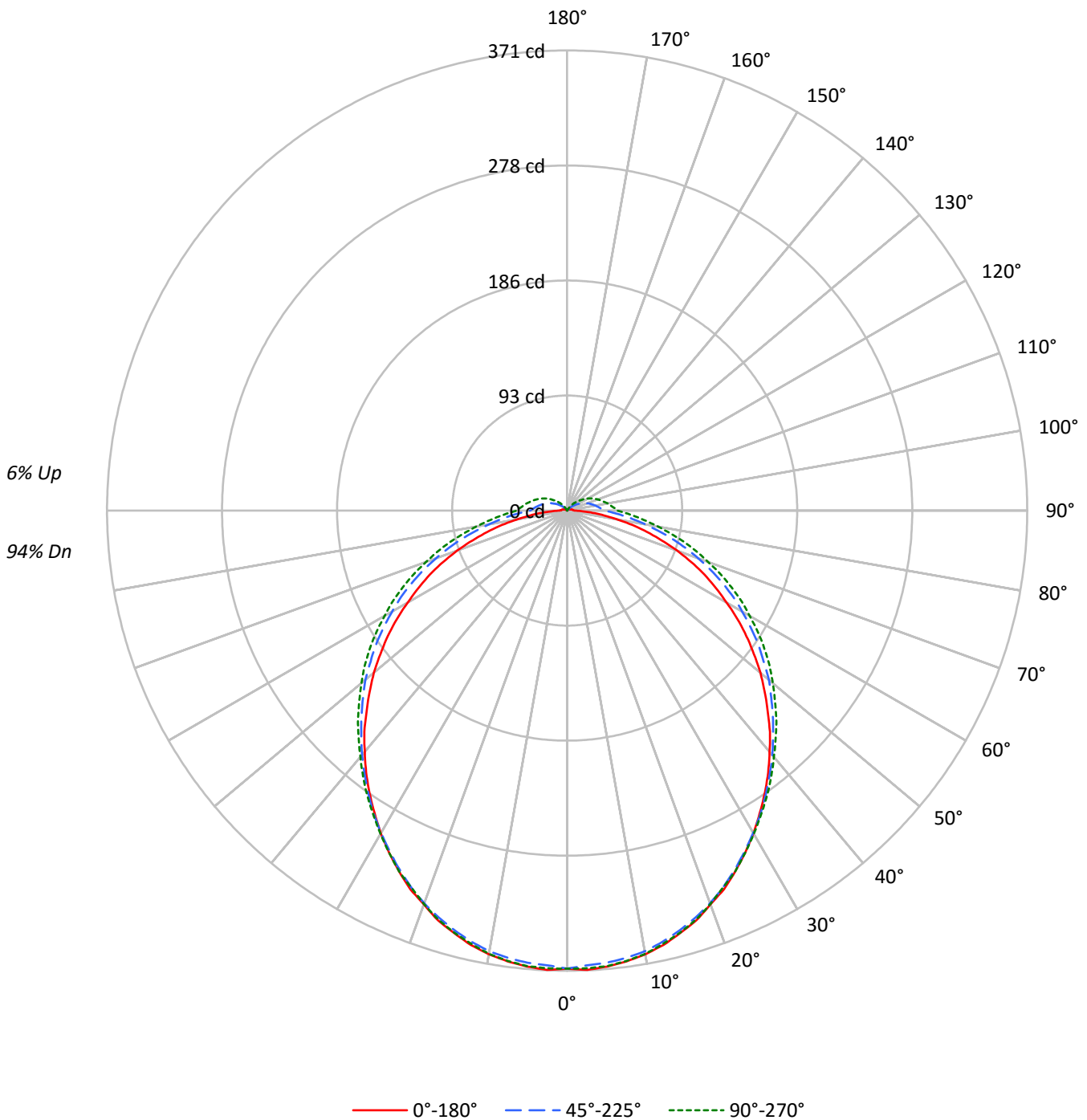
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	74	93	85	78	73	81	75	70	76	72	68	72	69	65	63
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	55	50	60	53	48	57	51	47	45
5	74	60	51	44	71	59	50	44	56	49	43	53	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	37	33	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2625	2625	2625
5°	2628	2573	2582
10°	2611	2530	2523
15°	2580	2469	2451
20°	2536	2403	2370
25°	2491	2326	2288
30°	2435	2247	2200
35°	2375	2170	2121
40°	2314	2095	2041
45°	2250	2022	1977
50°	2193	1960	1908
55°	2122	1884	1845
60°	2035	1801	1765
65°	1964	1714	1686
70°	1848	1607	1583
75°	1693	1482	1493
80°	1507	1345	1378
85°	1342	1258	1312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.9	3.0
10°-20°	99.3	8.7
20°-30°	147.8	12.9
30°-40°	175.1	15.3
40°-50°	181.1	15.8
50°-60°	167.1	14.6
60°-70°	135.0	11.8
70°-80°	90.2	7.9
80°-90°	46.6	4.1
90°-100°	26.1	2.3
100°-110°	19.4	1.7
110°-120°	12.9	1.1
120°-130°	7.2	0.6
130°-140°	3.2	0.3
140°-150°	0.7	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	282.0	24.6
0°-40°	457.1	39.9
0°-60°	805.3	70.2
0°-90°	1077.2	93.9
90°-120°	58.4	5.1
90°-150°	69.5	6.1
90°-180°	70.0	6.1
0°-180°	1146.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	369	369	369	369	369	
5°	369	369	366	369	369	35
15°	353	354	350	353	352	99
25°	321	322	320	321	321	148
35°	278	280	279	281	281	174
45°	229	232	234	238	239	177
55°	176	182	188	192	194	158
65°	122	129	138	144	146	120
75°	67	76	87	95	98	71
85°	20	32	45	53	55	21
90°	6	17	30	38	41	4
95°	5	14	26	34	36	4
105°	3	9	20	27	30	4
115°	2	5	14	20	23	2
125°	1	1	8	13	16	1
135°	1	1	3	8	9	1
145°	0	0	0	2	3	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°	369.3	369.3	369.3	369.3	369.3
2.5°	370.7	369.6	366.9	369.6	369.3
5°	369.0	368.6	365.9	368.6	368.6
7.5°	366.6	366.2	363.8	366.6	366.2
10°	363.2	363.2	360.8	362.8	362.8
12.5°	358.7	358.7	356.0	358.4	357.7
15°	352.6	353.6	350.5	352.6	352.2
17.5°	346.4	346.4	344.0	345.7	345.7
20°	337.9	339.3	336.9	338.6	337.6
22.5°	330.4	331.1	328.7	330.4	328.7
25°	320.8	322.2	319.5	321.2	320.8
27.5°	310.9	312.0	309.9	312.0	310.9
30°	300.4	301.4	300.0	301.4	301.0
32.5°	289.1	291.1	290.1	291.1	290.8
35°	277.8	279.9	279.2	280.6	280.9
37.5°	266.2	268.3	268.3	270.0	270.3
40°	253.9	256.7	257.3	259.7	259.4
42.5°	242.0	244.7	245.7	248.8	248.8
45°	228.7	232.4	234.5	238.2	238.6
47.5°	216.0	220.1	223.2	226.6	227.3
50°	203.4	207.2	212.3	215.7	216.4
52.5°	189.8	194.5	199.7	204.4	205.8
55°	176.5	181.9	188.1	192.5	194.2
57.5°	162.8	168.6	175.4	180.9	182.3
60°	148.5	155.3	163.1	168.6	170.0
62.5°	135.2	142.7	150.9	156.7	158.7
65°	122.2	129.4	138.2	144.4	146.1
67.5°	108.2	116.0	125.3	132.1	133.8
70°	94.2	102.7	112.6	119.1	120.8
72.5°	79.9	89.4	100.0	107.2	109.2
75°	66.6	76.5	87.4	94.9	97.6
77.5°	53.9	64.2	75.1	82.9	85.3
80°	41.3	51.9	63.8	72.0	74.4
82.5°	30.0	41.3	53.6	61.8	64.2
85°	20.5	32.1	44.7	52.6	55.3
87.5°	12.6	23.9	36.9	44.7	47.4
90°	5.8	17.1	29.7	37.9	40.6
92.5°	5.1	15.7	28.0	36.2	38.6
95°	4.8	14.3	26.3	34.1	36.5
97.5°	4.4	13.0	24.6	32.4	34.8
100°	4.1	11.6	23.2	30.7	33.1
102.5°	3.8	10.6	21.5	29.0	31.1
105°	3.4	9.2	20.1	27.3	29.7
107.5°	3.1	7.9	18.8	25.6	28.0
110°	2.7	6.8	17.1	23.9	26.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	5.8	15.7	22.2	24.6
115°	2.4	4.8	14.0	20.5	22.9
117.5°	2.0	3.8	12.3	18.8	21.2
120°	1.7	2.7	10.9	17.1	19.5
122.5°	1.7	2.0	9.6	15.4	17.7
125°	1.4	1.4	8.2	13.3	15.7
127.5°	1.4	1.0	6.8	11.9	13.7
130°	1.0	0.7	5.8	10.6	12.3
132.5°	1.0	0.7	4.4	9.2	10.9
135°	0.7	0.7	3.1	7.9	9.2
137.5°	0.7	0.3	2.0	6.1	7.9
140°	0.3	0.3	0.7	4.8	6.1
142.5°	0.3	0.3	0.3	3.4	4.8
145°	0.3	0.0	0.0	2.0	3.1
147.5°	0.3	0.0	0.0	0.7	1.7
150°	0.0	0.0	0.0	0.0	0.3
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)