

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: P242835

Luminaire Tested: **S125DR-S375D927-X4F0-XX-UDD-D-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S375D927-X4F0-XX-UDD-D-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN DROP DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1092.9 lumens
Efficiency: N/A
Efficacy: 94.2 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

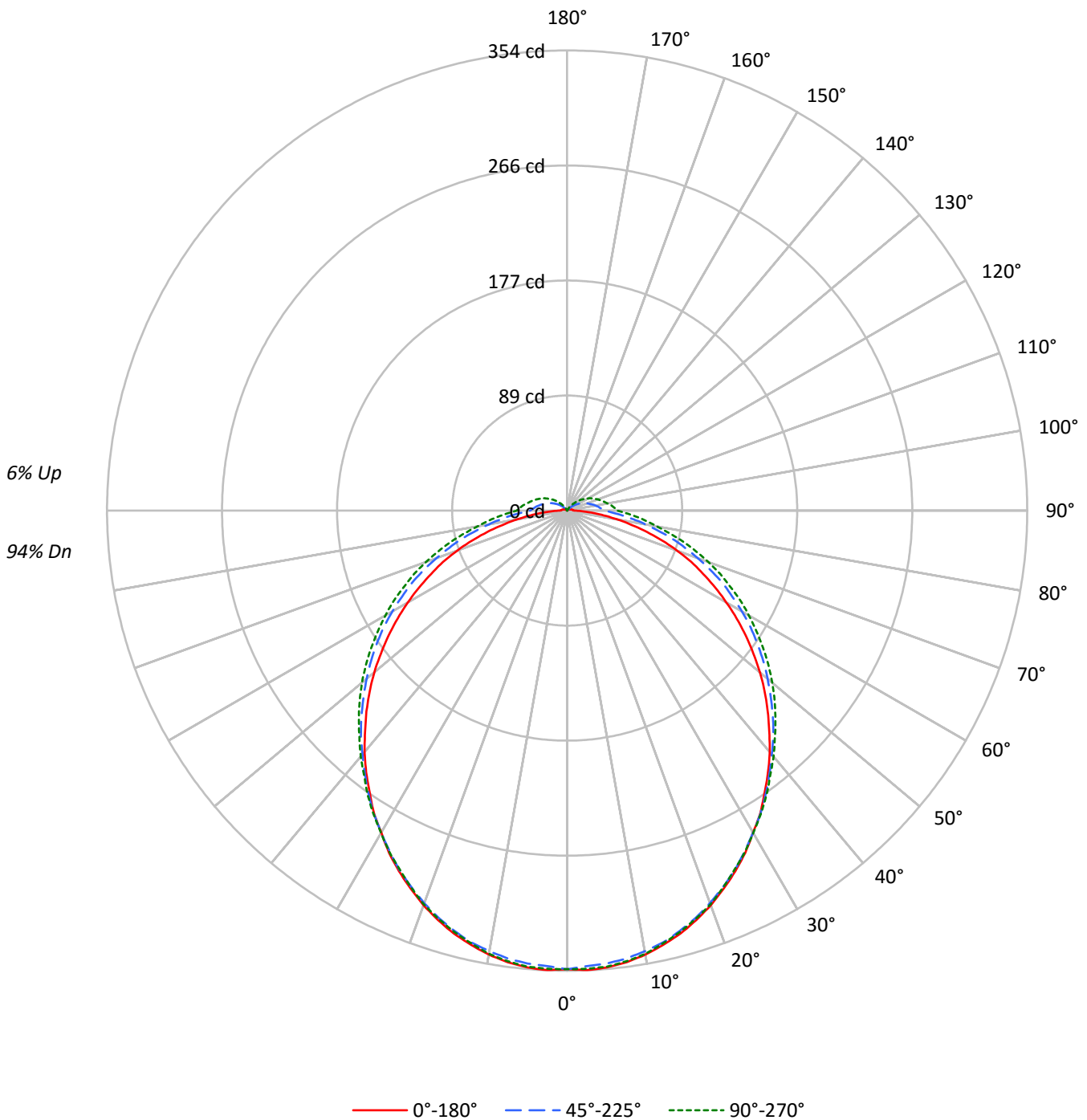
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2507	2507	2507
5°	2512	2459	2466
10°	2494	2413	2408
15°	2465	2359	2335
20°	2425	2292	2263
25°	2377	2221	2173
30°	2318	2142	2093
35°	2264	2070	2019
40°	2210	1994	1944
45°	2148	1929	1877
50°	2088	1858	1817
55°	2017	1791	1748
60°	1939	1715	1677
65°	1857	1635	1597
70°	1764	1526	1514
75°	1617	1419	1413
80°	1426	1290	1301
85°	1244	1196	1255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.4	3.1
10°-20°	94.8	8.7
20°-30°	140.9	12.9
30°-40°	166.9	15.3
40°-50°	172.6	15.8
50°-60°	159.0	14.5
60°-70°	128.5	11.8
70°-80°	86.0	7.9
80°-90°	44.4	4.1
90°-100°	25.0	2.3
100°-110°	18.4	1.7
110°-120°	12.4	1.1
120°-130°	7.0	0.6
130°-140°	3.1	0.3
140°-150°	0.6	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	269.1	24.6
0°-40°	436.0	39.9
0°-60°	767.5	70.2
0°-90°	1026.4	93.9
90°-120°	55.8	5.1
90°-150°	66.5	6.1
90°-180°	67.0	6.1
0°-180°	1092.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	353	353	353	353	353	
5°	353	352	350	352	352	33
15°	337	337	335	337	336	95
25°	306	307	305	306	305	141
35°	265	267	266	267	267	166
45°	218	222	224	226	227	168
55°	168	173	179	183	184	150
65°	116	124	132	137	138	115
75°	64	73	84	91	92	67
85°	19	30	42	50	53	20
90°	6	17	28	36	39	4
95°	4	14	25	33	35	4
105°	3	9	19	26	28	3
115°	2	4	14	20	22	2
125°	1	1	8	14	15	1
135°	1	0	3	7	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°	352.8	352.8	352.8	352.8	352.8
2.5°	353.8	353.1	350.7	353.1	352.8
5°	352.8	352.1	349.7	352.5	352.1
7.5°	350.4	350.0	347.6	350.0	349.7
10°	346.9	346.9	344.2	346.6	346.2
12.5°	342.1	342.4	340.4	342.1	341.0
15°	336.9	337.2	334.8	336.9	335.5
17.5°	330.3	331.0	328.6	330.3	329.3
20°	323.1	323.7	321.3	322.4	322.4
22.5°	314.8	316.1	313.4	314.8	313.7
25°	306.1	307.1	305.1	306.5	304.7
27.5°	296.8	298.2	295.7	296.8	296.1
30°	286.0	288.1	286.0	286.7	286.4
32.5°	276.4	278.1	276.7	277.4	277.1
35°	264.9	267.4	266.3	267.4	267.4
37.5°	253.9	256.0	255.6	257.0	256.6
40°	242.5	245.2	244.9	246.3	247.0
42.5°	230.0	233.8	234.9	236.6	236.6
45°	218.3	222.1	223.8	226.2	226.6
47.5°	206.1	209.6	212.4	215.8	216.5
50°	193.7	197.5	201.3	205.1	206.1
52.5°	180.6	185.4	190.2	194.4	195.1
55°	167.8	173.3	178.8	182.6	184.0
57.5°	154.6	161.2	167.4	171.6	172.6
60°	141.5	148.4	155.3	160.5	161.5
62.5°	128.7	135.6	143.2	149.1	150.5
65°	115.5	123.5	131.8	137.0	138.4
67.5°	103.4	111.0	119.3	125.6	127.3
70°	89.9	97.9	106.9	113.5	115.5
72.5°	76.8	85.1	95.1	102.4	103.8
75°	63.6	72.6	83.7	90.6	92.4
77.5°	50.8	61.2	71.6	79.2	80.6
80°	39.1	49.5	61.2	68.8	70.2
82.5°	28.4	39.4	51.5	58.8	61.6
85°	19.0	30.4	42.5	50.2	52.9
87.5°	12.1	23.2	34.9	42.9	45.3
90°	5.5	16.6	28.4	36.3	38.7
92.5°	4.8	14.9	27.0	34.6	37.0
95°	4.5	13.5	25.2	32.9	35.3
97.5°	4.2	12.5	23.9	31.1	33.6
100°	3.8	11.1	22.1	29.4	31.5
102.5°	3.5	10.0	20.8	27.7	29.7
105°	3.1	8.6	19.0	25.9	28.4
107.5°	2.8	7.6	17.6	24.6	26.6
110°	2.4	6.6	16.3	22.8	25.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.4	5.5	14.9	21.1	23.5
115°	2.1	4.5	13.5	19.7	21.8
117.5°	1.7	3.5	12.1	18.0	20.4
120°	1.7	2.8	10.7	16.6	18.7
122.5°	1.4	1.7	9.3	14.9	16.9
125°	1.4	1.0	8.0	13.5	15.2
127.5°	1.0	0.7	6.6	11.8	13.8
130°	1.0	0.7	5.5	10.4	12.1
132.5°	0.7	0.7	4.2	9.0	10.4
135°	0.7	0.3	2.8	7.3	9.0
137.5°	0.7	0.3	1.7	5.9	7.3
140°	0.3	0.3	0.7	4.5	5.9
142.5°	0.3	0.0	0.0	3.1	4.5
145°	0.3	0.0	0.0	1.7	3.1
147.5°	0.0	0.0	0.0	0.7	1.4
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)