

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P334305

Luminaire Tested: S125DP-S375D835-4F0-1E-UDD-D

Issue Date: 3/3/2020

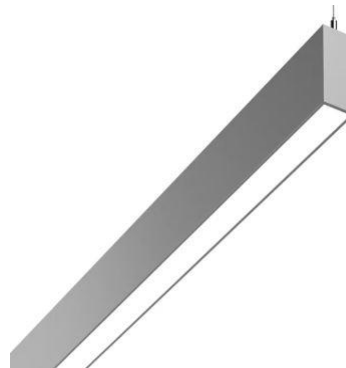
Test Information

Test Method: LM-79-2019
Report Number: P334305
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
Product Line: NEO-RAY
Catalog Number: S125DP-S375D835-4F0-1E-UDD-D
Description: DEFINE 5 DIRECT LED LUMINAIRE, DROP SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 375 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1379.6 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.08')
CIE Type: Direct

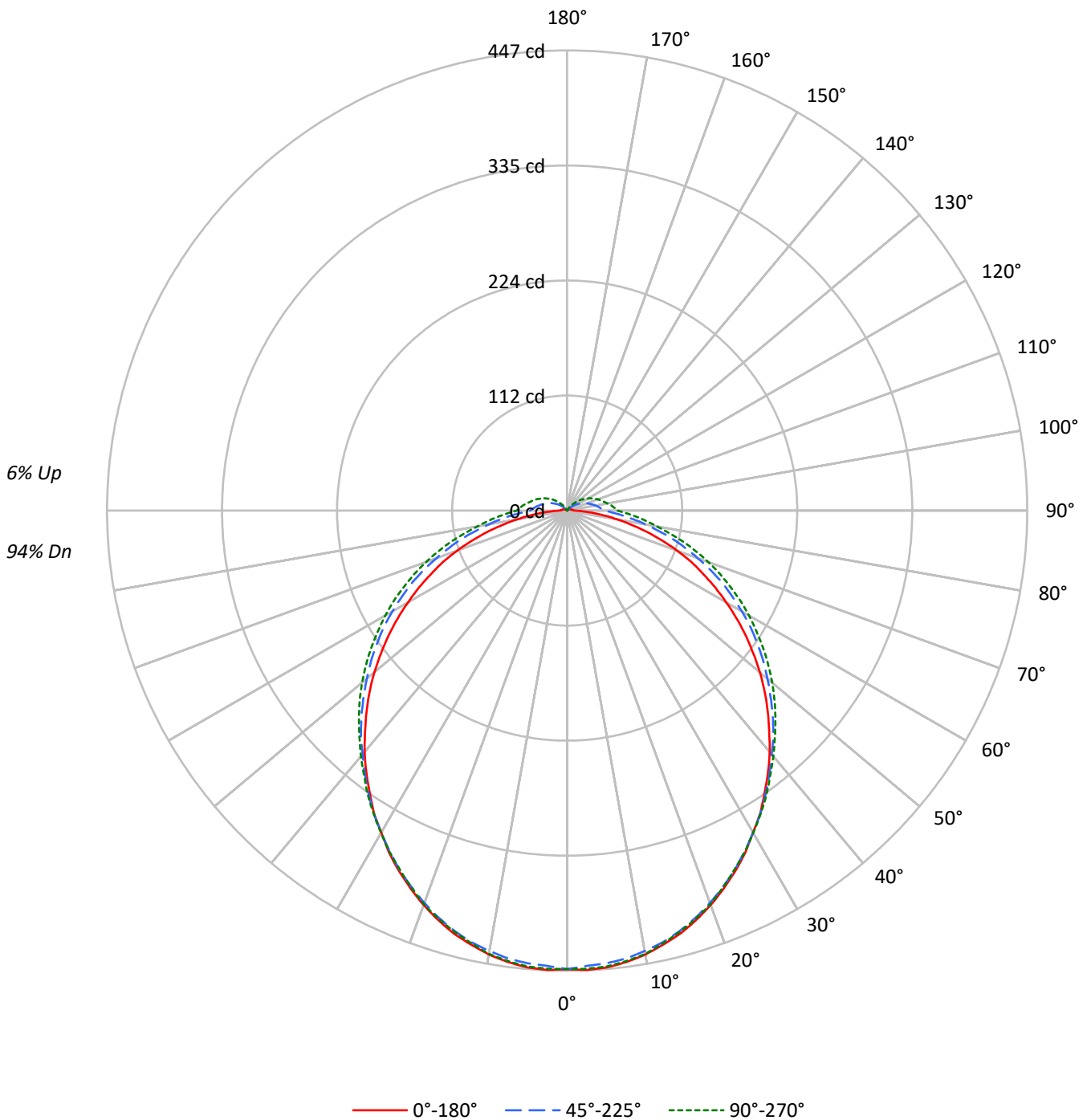
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	2877	2877	2877
5°	2882	2823	2832
10°	2861	2772	2769
15°	2828	2713	2688
20°	2782	2638	2607
25°	2727	2558	2508
30°	2661	2470	2417
35°	2599	2390	2334
40°	2536	2304	2250
45°	2465	2232	2177
50°	2397	2153	2111
55°	2316	2078	2035
60°	2227	1993	1956
65°	2133	1905	1868
70°	2027	1783	1777
75°	1859	1667	1666
80°	1640	1525	1544
85°	1436	1429	1507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2465 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	3.1
10°-20°	119.6	8.7
20°-30°	177.9	12.9
30°-40°	210.7	15.3
40°-50°	217.8	15.8
50°-60°	200.6	14.5
60°-70°	162.2	11.8
70°-80°	108.5	7.9
80°-90°	56.1	4.1
90°-100°	31.6	2.3
100°-110°	23.3	1.7
110°-120°	15.6	1.1
120°-130°	8.8	0.6
130°-140°	3.9	0.3
140°-150°	0.8	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	339.7	24.6
0°-40°	550.4	39.9
0°-60°	968.8	70.2
0°-90°	1295.7	93.9
90°-120°	70.5	5.1
90°-150°	83.9	6.1
90°-180°	84.0	6.1
0°-180°	1379.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	445	445	445	445	445	
5°	445	444	441	445	444	42
15°	425	426	423	425	424	120
25°	386	388	385	387	385	178
35°	334	338	336	338	338	209
45°	276	280	282	286	286	213
55°	212	219	226	230	232	189
65°	146	156	166	173	175	145
75°	80	92	106	114	117	85
85°	24	38	54	63	67	25
90°	7	21	36	46	49	5
95°	6	17	32	42	44	4
105°	4	11	24	33	36	4
115°	3	6	17	25	28	3
125°	2	1	10	17	19	1
135°	1	0	4	9	11	1
145°	0	0	0	2	4	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

TEST NUMBER: P334305

CATALOG NUMBER: S125DP-S375D835-4F0-1E-UDD-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	445.4	445.4	445.4	445.4	445.4
2.5°	446.7	445.8	442.7	445.8	445.4
5°	445.4	444.5	441.4	444.9	444.5
7.5°	442.3	441.9	438.8	441.9	441.4
10°	437.9	437.9	434.4	437.5	437.1
12.5°	431.8	432.3	429.6	431.8	430.5
15°	425.3	425.7	422.7	425.3	423.5
17.5°	417.0	417.8	414.8	417.0	415.7
20°	407.8	408.7	405.6	406.9	406.9
22.5°	397.3	399.1	395.6	397.3	396.0
25°	386.4	387.7	385.1	386.8	384.7
27.5°	374.6	376.4	373.3	374.6	373.7
30°	361.1	363.7	361.1	362.0	361.5
32.5°	348.9	351.0	349.3	350.2	349.7
35°	334.5	337.5	336.2	337.5	337.5
37.5°	320.5	323.1	322.7	324.4	324.0
40°	306.1	309.6	309.1	310.9	311.7
42.5°	290.4	295.2	296.5	298.7	298.7
45°	275.5	280.3	282.5	285.6	286.0
47.5°	260.2	264.6	268.1	272.5	273.3
50°	244.5	249.3	254.1	258.9	260.2
52.5°	227.9	234.0	240.1	245.4	246.3
55°	211.8	218.7	225.7	230.5	232.3
57.5°	195.2	203.5	211.3	216.6	217.9
60°	178.6	187.3	196.0	202.6	203.9
62.5°	162.4	171.2	180.8	188.2	189.9
65°	145.8	155.9	166.4	172.9	174.6
67.5°	130.6	140.2	150.6	158.5	160.7
70°	113.5	123.6	134.9	143.2	145.8
72.5°	96.9	107.4	120.1	129.2	131.0
75°	80.3	91.7	105.7	114.4	116.6
77.5°	64.2	77.3	90.4	100.0	101.7
80°	49.3	62.4	77.3	86.9	88.6
82.5°	35.8	49.8	65.1	74.2	77.7
85°	24.0	38.4	53.7	63.3	66.8
87.5°	15.3	29.3	44.1	54.1	57.2
90°	7.0	21.0	35.8	45.8	48.9
92.5°	6.1	18.8	34.1	43.7	46.7
95°	5.7	17.0	31.9	41.5	44.5
97.5°	5.2	15.7	30.1	39.3	42.4
100°	4.8	14.0	27.9	37.1	39.7
102.5°	4.4	12.7	26.2	34.9	37.5
105°	3.9	10.9	24.0	32.7	35.8
107.5°	3.5	9.6	22.3	31.0	33.6
110°	3.1	8.3	20.5	28.8	31.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.1	7.0	18.8	26.6	29.7
115°	2.6	5.7	17.0	24.9	27.5
117.5°	2.2	4.4	15.3	22.7	25.8
120°	2.2	3.5	13.5	21.0	23.6
122.5°	1.7	2.2	11.8	18.8	21.4
125°	1.7	1.3	10.0	17.0	19.2
127.5°	1.3	0.9	8.3	14.8	17.5
130°	1.3	0.9	7.0	13.1	15.3
132.5°	0.9	0.9	5.2	11.4	13.1
135°	0.9	0.4	3.5	9.2	11.4
137.5°	0.9	0.4	2.2	7.4	9.2
140°	0.4	0.4	0.9	5.7	7.4
142.5°	0.4	0.0	0.0	3.9	5.7
145°	0.4	0.0	0.0	2.2	3.9
147.5°	0.0	0.0	0.0	0.9	1.7
150°	0.0	0.0	0.0	0.0	0.4
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)