

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: P1004588

Luminaire Tested: S125DR-B375DB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1004588
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DR-B375DB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

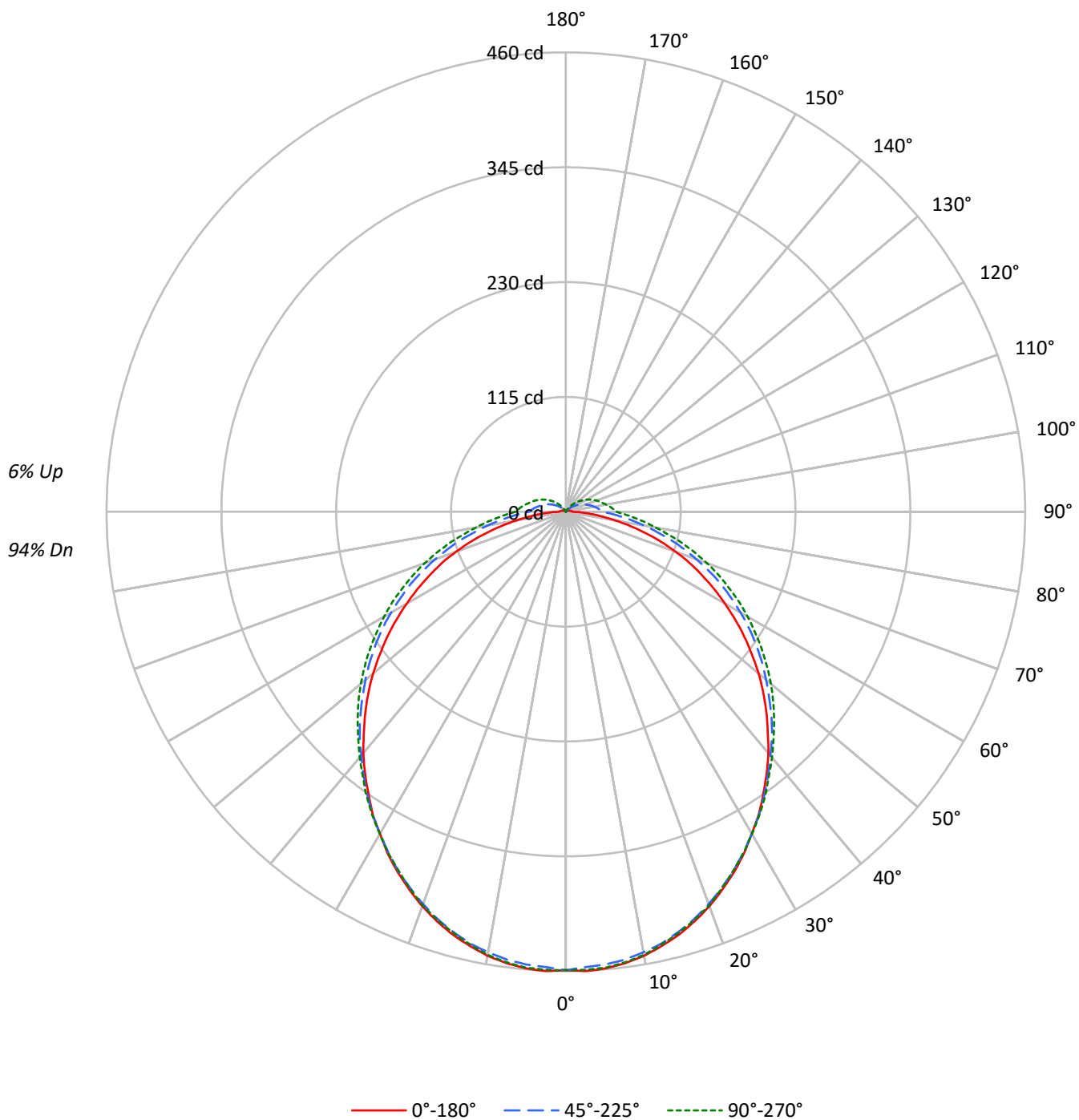
Lumens per Lamp: N/A
Luminaire Lumens: 1422.2 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 13
Input Voltage (V):
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

TEST NUMBER: P1004588

CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-D_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1004588

CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-D_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79
2	96	88	80	74	93	85	78	73	81	75	70	76	72	68	72	69	65
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55
4	80	68	59	52	77	66	58	51	63	55	50	60	53	48	57	51	47
5	74	60	51	44	71	59	50	44	56	49	43	53	47	42	51	45	41
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36
7	63	49	40	34	61	48	40	34	46	39	33	44	37	33	42	36	32
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	29
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2941	2941	2941
5°	2952	2926	2946
10°	2937	2913	2931
15°	2907	2889	2895
20°	2866	2851	2860
25°	2816	2806	2803
30°	2754	2754	2757
35°	2696	2710	2721
40°	2639	2665	2687
45°	2573	2639	2671
50°	2512	2611	2673
55°	2439	2599	2674
60°	2359	2590	2694
65°	2279	2600	2729
70°	2192	2606	2816
75°	2050	2696	2976
80°	1878	2941	3372
85°	1823	4073	5065

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 87.5°

Luminance: 8666 cd/sqm

TEST NUMBER: P1004588

CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	3.1
10°-20°	123.3	8.7
20°-30°	183.4	12.9
30°-40°	217.2	15.3
40°-50°	224.5	15.8
50°-60°	206.8	14.5
60°-70°	167.2	11.8
70°-80°	111.9	7.9
80°-90°	57.9	4.1
90°-100°	32.6	2.3
100°-110°	24.0	1.7
110°-120°	16.1	1.1
120°-130°	9.1	0.6
130°-140°	4.0	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°	350.1	24.6
0°-40°	567.3	39.9
0°-60°	998.6	70.2
0°-90°	1335.5	93.9
90°-120°	72.7	5.1
90°-150°	86.7	6.1
90°-180°	87.0	6.1
0°-180°	1422.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	7	22	37	47	50	5
95°	6	18	33	43	46	5
105°	4	11	25	34	37	4
115°	3	6	18	26	28	3
125°	2	1	10	18	20	2
135°	1	0	4	10	12	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: P1004588

CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	7.2	21.6	36.9	47.3	50.4
92.5°	6.3	19.4	35.1	45.0	48.2
95°	5.9	17.6	32.9	42.8	45.9
97.5°	5.4	16.2	31.1	40.5	43.7
100°	5.0	14.4	28.8	38.3	41.0
102.5°	4.5	13.1	27.0	36.0	38.7
105°	4.1	11.3	24.8	33.8	36.9
107.5°	3.6	9.9	23.0	32.0	34.7
110°	3.2	8.6	21.2	29.7	32.9



TEST NUMBER: P1004588

CATALOG NUMBER: S125DR-B375DB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	7.2	19.4	27.5	30.6
115°	2.7	5.9	17.6	25.7	28.4
117.5°	2.3	4.5	15.8	23.4	26.6
120°	2.3	3.6	14.0	21.6	24.3
122.5°	1.8	2.3	12.2	19.4	22.1
125°	1.8	1.4	10.4	17.6	19.8
127.5°	1.4	0.9	8.6	15.3	18.0
130°	1.4	0.9	7.2	13.5	15.8
132.5°	0.9	0.9	5.4	11.7	13.5
135°	0.9	0.5	3.6	9.5	11.7
137.5°	0.9	0.5	2.3	7.7	9.5
140°	0.5	0.5	0.9	5.9	7.7
142.5°	0.5	0.0	0.0	4.1	5.9
145°	0.5	0.0	0.0	2.3	4.1
147.5°	0.0	0.0	0.0	0.9	1.8
150°	0.0	0.0	0.0	0.0	0.5
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)