

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: P1011842

Luminaire Tested: S123DIP-B560D585UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011842
REPORT IS A COMBINATION OF REPORTS P990148 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D585UB40-4F0-XX-W2A-F1
Description: Define 3 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

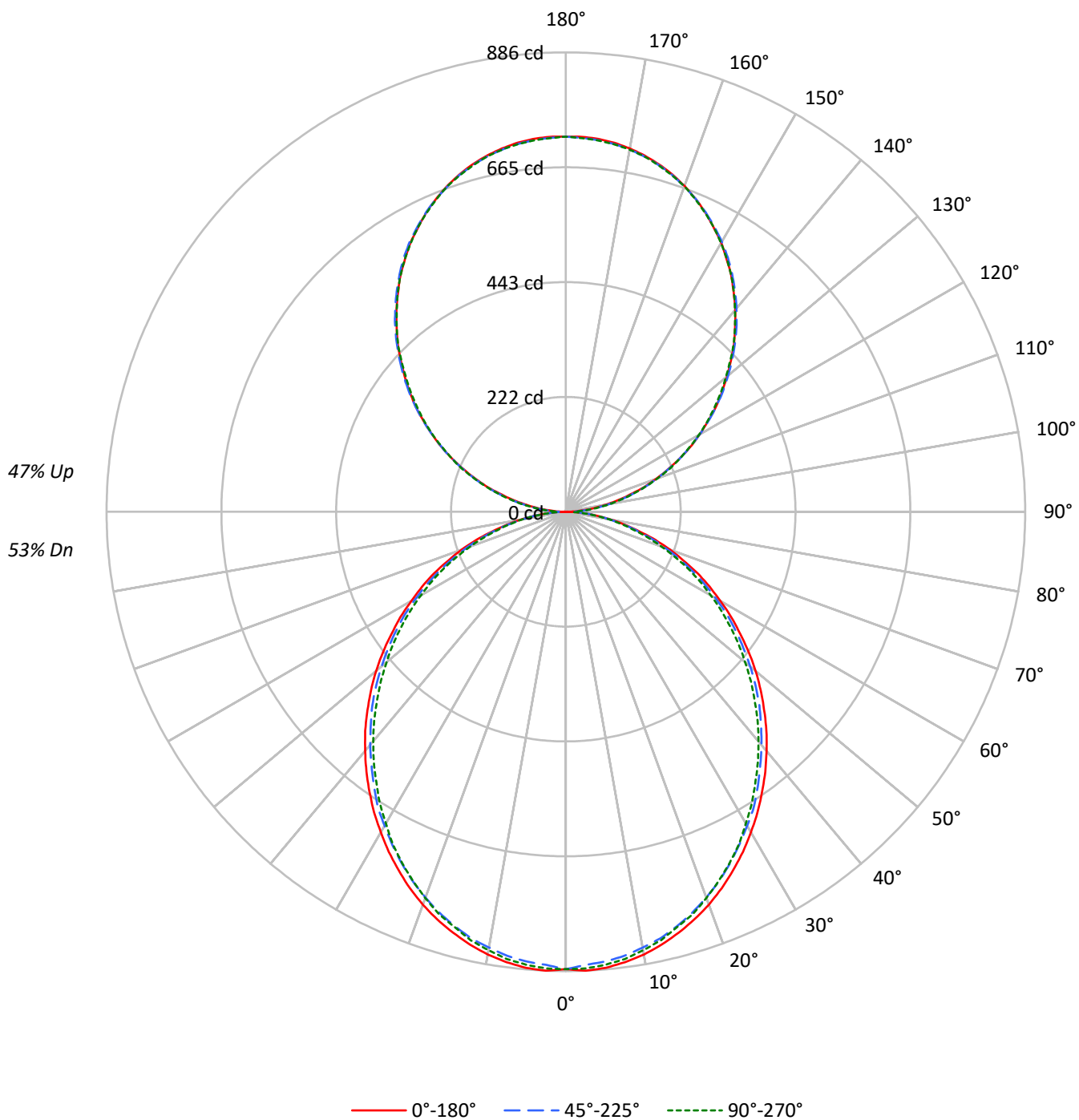
Lumens per Lamp: N/A
Luminaire Lumens: 4302.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
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

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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	98	94	90	87	91	87	84	81	75	72	70	63	61	60	52	51	50
2	90	82	76	71	83	76	71	66	65	61	58	55	52	50	46	44	42
3	82	72	65	59	75	67	61	55	58	53	49	49	45	42	41	38	36
4	75	64	56	50	69	59	52	47	51	46	41	44	39	36	36	33	31
5	69	57	49	43	63	53	46	40	46	40	36	39	35	31	33	29	27
6	63	51	43	37	58	48	40	35	41	35	31	35	31	27	30	26	24
7	59	46	38	32	54	43	36	31	37	32	27	32	28	24	27	24	21
8	54	42	34	29	50	39	32	27	34	28	24	29	25	22	25	21	19
9	51	38	31	26	47	36	29	24	31	26	22	27	23	19	23	20	17
10	47	35	28	23	44	33	26	22	29	23	20	25	21	18	21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9496	9496	9496
5°	9520	9168	9155
10°	9435	8858	8767
15°	9304	8535	8345
20°	9154	8177	7926
25°	8959	7799	7479
30°	8746	7408	7008
35°	8523	7008	6541
40°	8289	6588	6081
45°	8033	6180	5601
50°	7771	5723	5118
55°	7436	5250	4629
60°	7090	4726	4109
65°	6766	4159	3567
70°	6299	3530	2934
75°	5626	2795	2277
80°	4859	1964	1612
85°	3785	1055	807

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8033 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	1.9
10°-20°	234.8	5.5
20°-30°	346.8	8.1
30°-40°	405.1	9.4
40°-50°	407.2	9.5
50°-60°	357.7	8.3
60°-70°	266.4	6.2
70°-80°	151.6	3.5
80°-90°	44.6	1.0
90°-100°	46.6	1.1
100°-110°	141.0	3.3
110°-120°	240.0	5.6
120°-130°	315.7	7.3
130°-140°	354.8	8.2
140°-150°	348.8	8.1
150°-160°	293.7	6.8
160°-170°	195.5	4.5
170°-180°	68.5	1.6
0°-30°	664.8	15.5
0°-40°	1069.9	24.9
0°-60°	1834.9	42.7
0°-90°	2297.5	53.4
90°-120°	427.5	9.9
90°-150°	1446.8	33.6
90°-180°	2004.0	46.6
0°-180°	4302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	883	879	871	878	877	84
15°	840	838	828	834	829	237
25°	763	759	749	750	747	352
35°	660	655	646	641	637	413
45°	541	538	528	519	515	418
55°	410	410	400	391	388	368
65°	280	276	268	262	260	276
75°	148	145	143	139	136	158
85°	39	38	38	36	36	42
90°	1	6	14	16	17	5
95°	34	38	42	44	44	37
105°	128	129	134	134	135	137
115°	242	243	242	243	242	239
125°	354	355	354	352	350	315
135°	459	462	461	459	458	353
145°	556	558	559	559	556	347
155°	637	637	638	640	636	293
165°	694	692	692	696	692	196
175°	722	719	719	723	719	69
180°	723	723	723	723	723	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.2	882.2	882.2	882.2	882.2
2.5°	886.0	883.0	874.6	882.2	881.5
5°	883.0	879.2	870.8	878.4	876.9
7.5°	876.1	872.3	864.0	870.8	870.1
10°	867.0	863.2	853.4	860.2	858.7
12.5°	854.9	851.9	842.8	847.3	846.6
15°	840.5	837.5	827.6	833.7	829.1
17.5°	824.6	820.8	810.9	815.5	813.9
20°	806.4	801.8	791.9	795.0	792.7
22.5°	785.9	781.3	771.5	773.7	770.7
25°	763.1	758.6	748.7	749.5	747.2
27.5°	739.6	735.0	724.4	725.2	722.9
30°	713.8	710.0	699.4	699.4	694.1
32.5°	688.0	682.7	675.1	669.8	667.5
35°	660.0	655.4	645.5	641.0	637.2
37.5°	631.9	625.8	616.0	610.6	608.4
40°	602.3	597.7	587.1	581.1	578.0
42.5°	572.7	567.4	556.8	550.7	547.7
45°	540.9	537.8	528.0	518.9	515.1
47.5°	509.8	505.2	496.1	487.0	484.0
50°	477.9	474.1	464.2	455.9	451.3
52.5°	444.5	442.2	431.6	424.8	420.2
55°	410.4	409.6	399.8	391.4	387.6
57.5°	378.5	375.5	367.9	360.3	355.8
60°	343.6	342.9	333.8	326.9	323.1
62.5°	312.5	310.3	301.1	294.3	292.0
65°	279.9	276.1	268.5	262.5	260.2
67.5°	245.0	242.0	235.9	230.6	227.6
70°	213.9	209.4	204.8	199.5	195.7
72.5°	181.3	178.3	173.0	168.4	166.9
75°	147.9	144.9	142.6	138.8	136.5
77.5°	118.3	116.8	113.8	110.8	110.8
80°	89.5	87.2	85.7	85.0	85.0
82.5°	61.4	61.4	61.4	59.9	59.2
85°	39.4	37.9	37.9	36.4	36.4
87.5°	19.7	17.4	16.7	15.9	15.9
90°	0.6	6.3	13.6	15.9	17.0
92.5°	17.0	20.5	23.9	25.6	24.4
95°	33.5	37.5	42.1	44.3	44.3
97.5°	55.1	58.0	61.4	64.2	63.6
100°	77.3	80.7	83.5	85.2	86.4
102.5°	102.9	104.6	108.5	110.2	109.7
105°	127.9	129.0	134.1	134.1	135.3
107.5°	157.4	158.0	160.3	162.0	161.4
110°	184.7	185.8	187.0	189.2	188.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.1	213.7	213.7	216.5	216.5
115°	241.5	243.2	242.1	242.7	242.1
117.5°	270.5	271.1	269.9	269.9	268.2
120°	297.2	300.6	297.8	297.2	296.1
122.5°	325.1	327.3	326.2	324.5	322.8
125°	353.5	355.2	354.0	351.8	349.5
127.5°	379.6	383.0	381.9	378.5	376.2
130°	405.8	410.3	408.6	406.3	402.3
132.5°	431.9	436.4	435.3	432.5	429.6
135°	458.6	462.0	461.4	459.2	458.0
137.5°	483.0	485.9	487.6	484.7	483.0
140°	508.6	511.5	512.0	511.5	507.5
142.5°	531.9	534.8	535.9	535.3	532.5
145°	556.3	557.5	559.2	558.6	556.3
147.5°	577.4	579.6	581.4	581.4	577.9
150°	599.5	600.7	601.8	601.8	598.4
152.5°	617.7	619.4	620.0	621.1	618.3
155°	637.0	637.0	637.6	639.9	635.9
157.5°	653.5	653.0	653.5	655.8	652.4
160°	668.9	667.7	667.7	670.6	668.3
162.5°	682.5	680.8	681.4	684.2	680.2
165°	693.9	692.2	692.2	695.6	691.6
167.5°	703.5	701.3	701.8	705.2	701.8
170°	711.5	709.2	709.2	713.2	709.2
172.5°	717.7	715.5	715.5	718.9	714.9
175°	721.7	719.4	719.4	722.9	718.9
177.5°	724.0	721.7	721.7	725.1	721.1
180°	723.4	723.4	723.4	723.4	723.4

(END OF REPORT)