

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: P1011747

Luminaire Tested: S123DIP-B560D1195UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011747
REPORT IS A COMBINATION OF REPORTS P990020 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB35-4F0-XX-W2A-F4
Description: Define 3 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

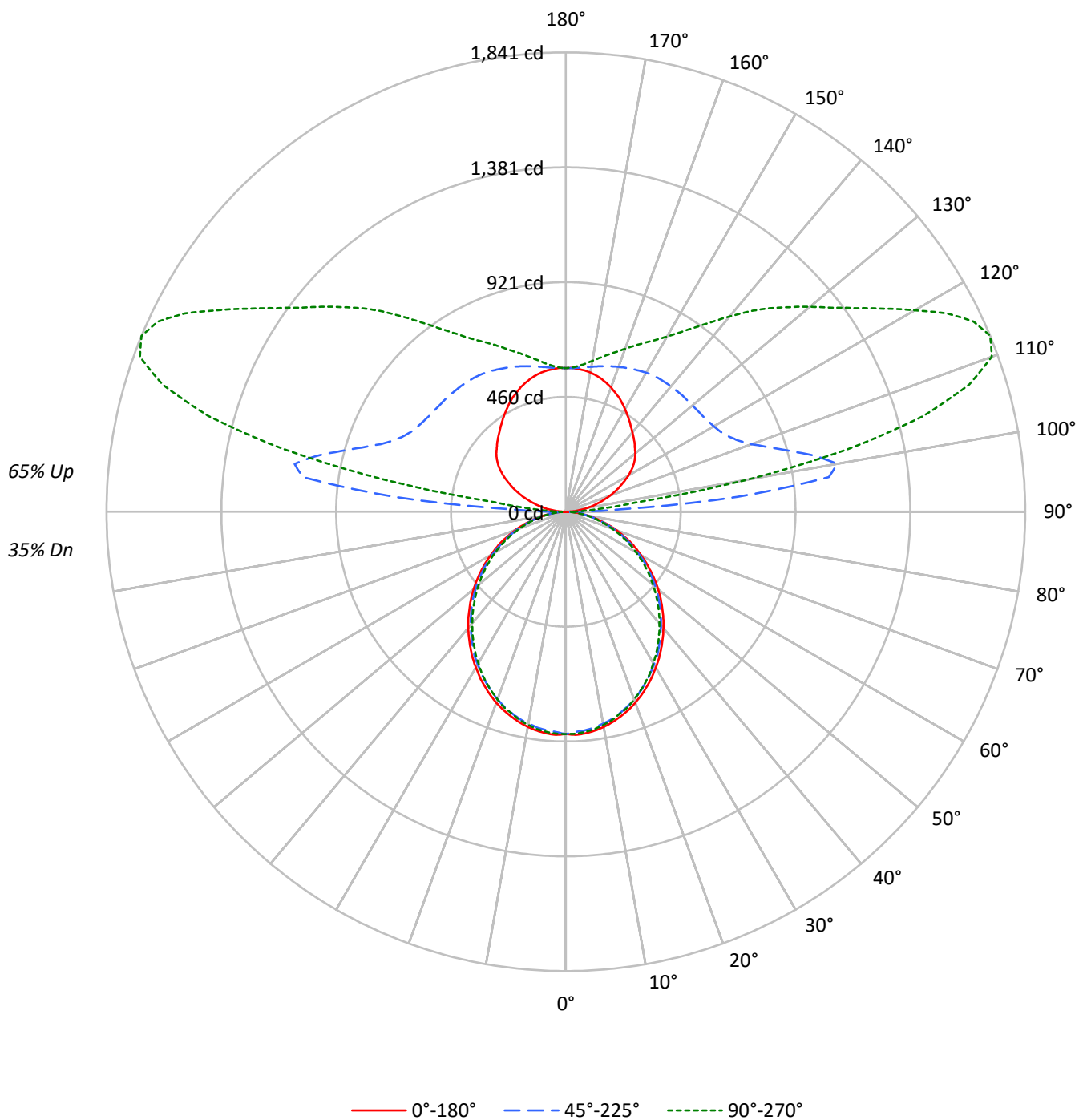
Lumens per Lamp: N/A
Luminaire Lumens: 6665.1 lumens
Efficiency: N/A
Efficacy: 113.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	94	90	86	83	85	82	78	75	65	63	61	51	49	48	37	36	36
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30
3	78	69	62	56	70	63	56	52	51	46	43	39	36	34	29	27	25
4	72	61	53	47	64	55	49	44	45	40	36	35	32	29	26	24	22
5	66	54	46	40	59	49	42	37	40	35	31	31	28	25	23	21	19
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	27	24	26	22	19	19	17	15
8	52	40	32	27	47	36	29	25	30	25	21	23	20	17	18	15	13
9	48	36	29	24	43	33	26	22	27	22	19	21	18	15	16	14	12
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9591	9591	9591
5°	9615	9261	9246
10°	9529	8946	8855
15°	9397	8621	8428
20°	9245	8259	8005
25°	9049	7877	7554
30°	8834	7482	7078
35°	8609	7078	6607
40°	8372	6654	6142
45°	8113	6241	5656
50°	7849	5781	5170
55°	7510	5302	4676
60°	7162	4773	4151
65°	6834	4200	3603
70°	6364	3567	2964
75°	5683	2823	2301
80°	4908	1985	1627
85°	3823	1067	816

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	1.3
10°-20°	237.2	3.6
20°-30°	350.3	5.3
30°-40°	409.1	6.1
40°-50°	411.3	6.2
50°-60°	361.3	5.4
60°-70°	269.1	4.0
70°-80°	153.1	2.3
80°-90°	46.8	0.7
90°-100°	327.3	4.9
100°-110°	914.9	13.7
110°-120°	892.1	13.4
120°-130°	710.4	10.7
130°-140°	560.8	8.4
140°-150°	418.4	6.3
150°-160°	291.8	4.4
160°-170°	171.5	2.6
170°-180°	55.8	0.8
0°-30°	671.5	10.1
0°-40°	1080.6	16.2
0°-60°	1853.3	27.8
0°-90°	2322.2	34.8
90°-120°	2134.3	32.0
90°-150°	3823.8	57.4
90°-180°	4343.0	65.2
0°-180°	6665.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	892	888	880	887	886	85
15°	849	846	836	842	837	239
25°	771	766	756	757	755	355
35°	667	662	652	647	644	417
45°	546	543	533	524	520	422
55°	414	414	404	395	392	371
65°	283	279	271	265	263	279
75°	149	146	144	140	138	160
85°	40	38	38	37	37	43
90°	2	14	29	33	34	6
95°	40	129	691	202	135	42
105°	135	200	938	1639	1483	144
115°	239	298	717	1572	1804	237
125°	332	392	669	1213	1422	295
135°	389	465	660	999	1153	301
145°	444	509	652	819	901	278
155°	505	545	631	717	747	232
165°	552	567	604	641	652	155
175°	575	575	580	588	586	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.0	891.0	891.0	891.0	891.0
2.5°	894.9	891.8	883.4	891.0	890.3
5°	891.8	888.0	879.6	887.2	885.7
7.5°	884.9	881.1	872.7	879.6	878.8
10°	875.7	871.9	861.9	868.8	867.3
12.5°	863.5	860.4	851.2	855.8	855.0
15°	848.9	845.8	835.9	842.0	837.4
17.5°	832.8	829.0	819.0	823.6	822.1
20°	814.4	809.8	799.9	802.9	800.6
22.5°	793.7	789.1	779.2	781.5	778.4
25°	770.8	766.2	756.2	757.0	754.7
27.5°	747.0	742.4	731.7	732.5	730.2
30°	721.0	717.1	706.4	706.4	701.0
32.5°	694.9	689.5	681.9	676.5	674.2
35°	666.6	662.0	652.0	647.4	643.6
37.5°	638.2	632.1	622.1	616.8	614.5
40°	608.3	603.7	593.0	586.9	583.8
42.5°	578.5	573.1	562.4	556.2	553.2
45°	546.3	543.2	533.2	524.1	520.2
47.5°	514.9	510.3	501.1	491.9	488.8
50°	482.7	478.9	468.9	460.5	455.9
52.5°	449.0	446.7	435.9	429.1	424.5
55°	414.5	413.7	403.8	395.3	391.5
57.5°	382.3	379.3	371.6	363.9	359.3
60°	347.1	346.3	337.1	330.2	326.4
62.5°	315.7	313.4	304.2	297.3	295.0
65°	282.7	278.9	271.2	265.1	262.8
67.5°	247.5	244.4	238.3	232.9	229.8
70°	216.1	211.5	206.9	201.5	197.7
72.5°	183.1	180.0	174.7	170.1	168.6
75°	149.4	146.3	144.0	140.2	137.9
77.5°	119.5	118.0	114.9	111.9	111.9
80°	90.4	88.1	86.6	85.8	85.8
82.5°	62.1	62.1	62.1	60.5	59.8
85°	39.8	38.3	38.3	36.8	36.8
87.5°	19.9	17.6	16.9	16.1	16.1
90°	2.3	14.0	29.2	32.6	33.8
92.5°	17.5	70.0	216.9	74.0	61.8
95°	39.6	128.8	691.4	201.7	135.3
97.5°	63.0	147.5	1063.4	507.2	277.5
100°	86.3	162.6	1104.2	1061.1	731.1
102.5°	110.8	180.1	1028.4	1420.8	1157.9
105°	135.3	200.0	937.5	1639.4	1483.2
107.5°	160.9	223.3	857.0	1735.6	1695.4
110°	188.9	247.2	790.6	1738.5	1816.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.5	272.2	746.2	1672.6	1841.1
115°	239.0	298.0	717.1	1572.4	1803.8
117.5°	263.5	322.4	697.3	1465.1	1722.2
120°	289.2	346.9	684.4	1363.6	1614.9
122.5°	311.3	370.2	676.3	1283.8	1514.7
125°	332.3	392.4	669.3	1212.6	1422.5
127.5°	348.6	413.4	665.8	1154.4	1343.2
130°	363.8	432.0	662.3	1100.8	1278.0
132.5°	375.5	449.0	661.1	1050.6	1213.8
135°	389.4	464.6	660.0	998.7	1153.2
137.5°	402.3	477.5	657.6	949.8	1089.1
140°	415.1	489.2	656.5	901.9	1021.4
142.5°	429.1	499.6	654.1	858.2	958.5
145°	444.3	509.0	651.8	819.1	901.3
147.5°	459.4	518.8	648.3	788.8	852.4
150°	474.6	527.0	643.6	762.0	810.4
152.5°	489.7	535.8	637.8	738.6	775.4
155°	504.9	544.6	630.8	717.1	747.4
157.5°	516.5	552.1	625.0	696.1	720.6
160°	530.5	558.6	618.0	676.9	694.9
162.5°	541.0	563.2	611.0	658.8	671.6
165°	551.5	567.2	604.0	640.7	651.8
167.5°	559.7	570.8	597.0	625.0	632.0
170°	566.7	572.5	590.0	611.0	614.5
172.5°	571.3	574.2	584.2	598.8	598.2
175°	574.8	575.4	579.5	587.7	586.5
177.5°	577.2	576.0	576.0	580.7	578.3
180°	576.0	576.0	576.0	576.0	576.0

(END OF REPORT)