

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: P1011735

Luminaire Tested: S123DIP-B560D1195UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1011735
REPORT IS A COMBINATION OF REPORTS P990008 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIP-B560D1195UB30-4F0-XX-W2A-D4
Description: Define 3 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

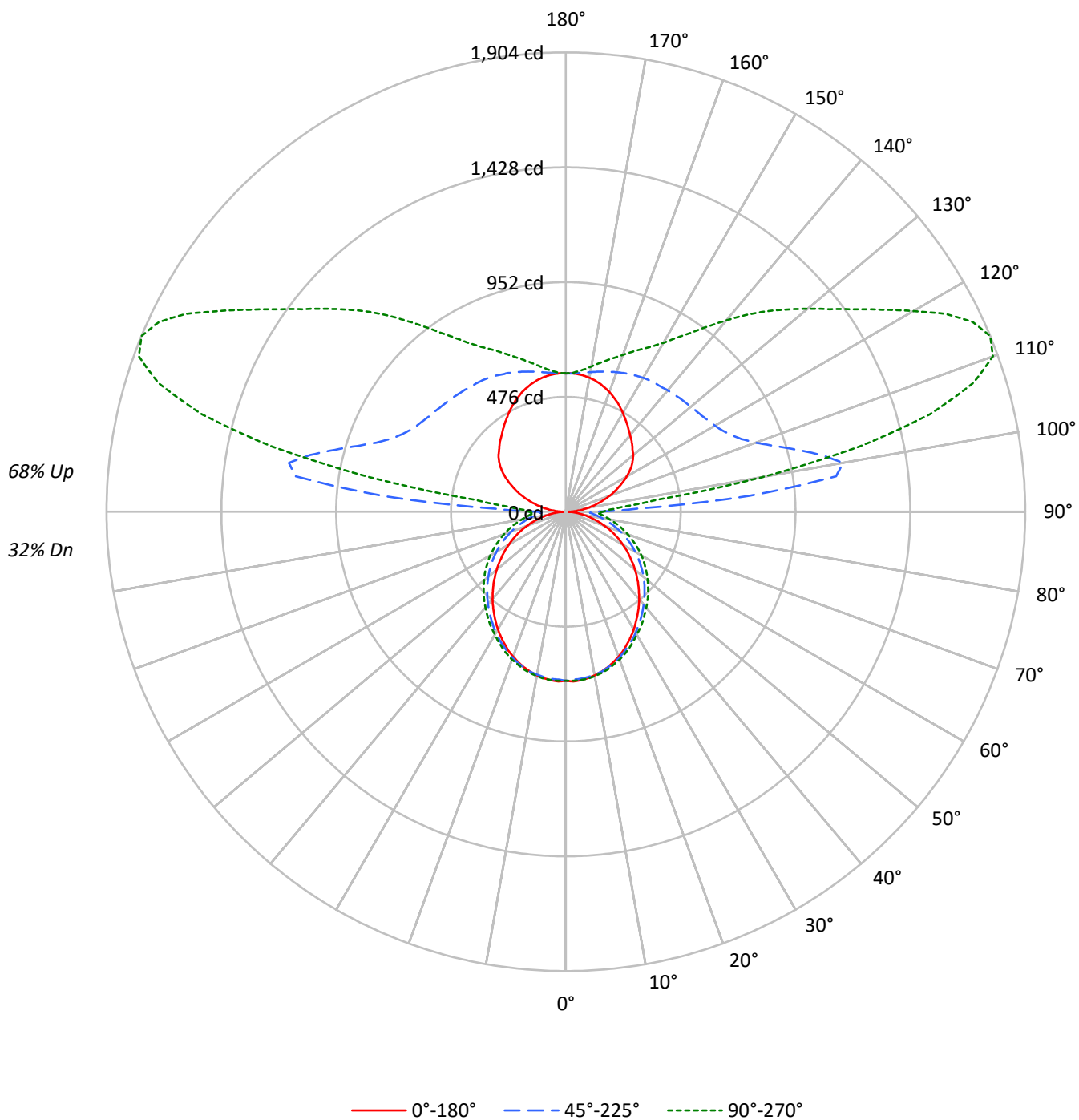
Lumens per Lamp: N/A
Luminaire Lumens: 6682.0 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	93	89	85	81	84	80	76	73	63	61	59	48	47	45	34	33	32
2	84	77	71	65	76	69	64	60	55	51	48	42	39	37	30	28	27
3	77	67	60	54	69	61	54	49	48	44	40	37	34	31	26	24	22
4	70	59	52	45	63	54	47	42	43	38	34	33	29	26	23	21	19
5	64	53	45	39	57	48	41	35	38	33	29	29	25	23	21	18	16
6	59	47	39	33	53	43	36	31	34	29	25	26	22	20	19	16	14
7	54	42	34	29	49	38	31	27	31	26	22	24	20	17	17	15	13
8	50	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	11
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	14	12	10
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7539	7539	7539
5°	7560	7318	7312
10°	7489	7120	7065
15°	7390	6901	6804
20°	7249	6657	6523
25°	7077	6382	6232
30°	6899	6133	5940
35°	6700	5873	5702
40°	6511	5634	5451
45°	6300	5403	5243
50°	6091	5174	5018
55°	5862	4940	4812
60°	5637	4699	4600
65°	5405	4444	4351
70°	5056	4156	4096
75°	4614	3828	3832
80°	4099	3498	3531
85°	3592	3230	3314

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.4	1.0
10°-20°	189.4	2.8
20°-30°	283.3	4.2
30°-40°	338.2	5.1
40°-50°	353.8	5.3
50°-60°	332.1	5.0
60°-70°	277.4	4.2
70°-80°	198.3	3.0
80°-90°	121.2	1.8
90°-100°	400.1	6.0
100°-110°	965.6	14.5
110°-120°	924.8	13.8
120°-130°	728.2	10.9
130°-140°	567.7	8.5
140°-150°	418.6	6.3
150°-160°	290.7	4.3
160°-170°	170.7	2.6
170°-180°	55.5	0.8
0°-30°	539.1	8.1
0°-40°	877.3	13.1
0°-60°	1563.2	23.4
0°-90°	2160.1	32.3
90°-120°	2290.5	34.3
90°-150°	4005.0	59.9
90°-180°	4522.0	67.7
0°-180°	6682.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	700	700	700	700	700	
5°	701	700	695	701	700	67
15°	668	670	669	677	676	188
25°	603	610	613	623	623	278
35°	519	531	541	552	556	324
45°	424	442	462	476	482	327
55°	324	349	376	397	403	290
65°	224	253	287	310	317	221
75°	121	157	195	220	230	130
85°	37	76	116	142	150	38
90°	12	61	115	145	154	10
95°	48	166	764	300	242	48
105°	141	224	991	1711	1562	149
115°	242	310	754	1625	1861	240
125°	333	393	691	1248	1462	296
135°	389	464	666	1017	1175	301
145°	443	507	649	822	907	278
155°	503	542	628	714	744	231
165°	549	565	602	638	649	155
175°	572	573	577	585	584	54
180°	574	574	574	574	574	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	704.2	702.0	695.9	702.0	701.2
5°	701.2	699.7	695.1	701.2	700.4
7.5°	695.9	695.9	691.3	698.9	698.1
10°	688.2	689.7	685.9	693.6	692.0
12.5°	679.1	681.4	679.1	685.9	684.4
15°	667.6	669.9	669.1	676.8	676.0
17.5°	653.9	658.5	657.7	664.6	663.0
20°	638.6	643.2	644.7	651.6	652.4
22.5°	622.6	627.2	629.5	638.6	637.9
25°	602.8	610.4	612.7	622.6	622.6
27.5°	583.7	592.1	596.7	605.1	605.8
30°	563.1	573.0	579.1	588.3	588.3
32.5°	540.2	551.6	560.0	570.0	572.2
35°	518.8	531.0	541.0	552.4	555.5
37.5°	495.9	509.7	521.1	534.1	536.4
40°	473.1	486.8	502.1	515.0	518.1
42.5°	447.9	465.4	481.5	495.9	500.5
45°	424.2	442.5	461.6	476.1	482.2
47.5°	399.0	419.6	441.0	457.0	461.6
50°	374.6	396.0	419.6	437.2	442.5
52.5°	348.7	371.6	398.3	416.6	423.5
55°	323.5	348.7	376.2	396.8	402.9
57.5°	299.1	325.0	354.8	375.4	382.3
60°	273.2	300.6	331.9	353.3	361.7
62.5°	248.7	277.0	310.5	331.9	339.5
65°	223.6	253.3	286.9	309.8	317.4
67.5°	198.4	229.7	263.2	288.4	294.5
70°	171.7	204.5	241.1	265.5	273.2
72.5°	147.3	180.1	218.2	243.4	251.0
75°	121.3	157.2	195.3	220.5	229.7
77.5°	99.2	135.1	173.2	199.9	206.8
80°	75.5	112.9	152.6	178.5	186.2
82.5°	54.9	93.1	133.5	159.5	167.1
85°	37.4	75.5	116.0	141.9	149.5
87.5°	22.9	61.0	100.0	125.9	133.5
90°	12.2	61.2	115.2	144.8	153.5
92.5°	26.6	111.6	296.1	179.0	173.7
95°	47.9	166.4	764.1	300.1	241.5
97.5°	70.3	182.0	1130.0	598.9	377.9
100°	92.8	193.2	1166.0	1145.2	824.2
102.5°	116.4	206.9	1086.0	1498.1	1243.8
105°	140.8	223.5	990.8	1711.2	1562.5
107.5°	165.5	243.8	906.1	1801.6	1768.4
110°	192.7	264.4	836.1	1800.0	1883.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.3	286.4	787.5	1729.0	1903.7
115°	241.8	309.7	754.5	1624.6	1861.2
117.5°	266.2	331.0	730.3	1513.2	1775.4
120°	291.1	352.3	713.6	1407.6	1663.1
122.5°	313.1	373.2	701.7	1323.4	1558.8
125°	333.2	393.0	690.9	1248.1	1462.4
127.5°	349.5	413.2	683.6	1185.4	1378.9
130°	364.6	431.7	676.3	1127.4	1308.5
132.5°	375.4	448.6	671.4	1073.0	1240.8
135°	389.3	463.6	666.4	1017.4	1175.1
137.5°	402.1	476.3	661.0	964.1	1106.6
140°	414.2	487.9	656.8	912.6	1035.5
142.5°	428.1	497.6	651.4	864.5	968.2
145°	443.2	506.8	649.1	821.8	906.8
147.5°	457.5	516.7	645.6	787.8	854.1
150°	472.6	524.8	641.0	758.8	808.5
152.5°	487.7	533.6	635.2	735.6	772.2
155°	502.8	542.2	628.2	714.2	744.3
157.5°	514.4	549.8	622.4	693.2	717.6
160°	528.3	556.2	615.4	674.0	692.1
162.5°	538.8	560.8	608.5	656.0	668.8
165°	549.2	564.9	601.5	638.1	649.1
167.5°	557.4	568.4	594.5	622.4	629.4
170°	564.3	570.2	587.6	608.4	611.9
172.5°	569.0	571.9	581.7	596.2	595.7
175°	572.5	573.0	577.1	585.2	584.1
177.5°	574.8	573.6	573.6	578.3	575.9
180°	573.6	573.6	573.6	573.6	573.6

(END OF REPORT)