

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: P1025446

Luminaire Tested: S124DIP-B350D810UB30-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025446
REPORT IS A COMBINATION OF REPORTS P995986 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D810UB30-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

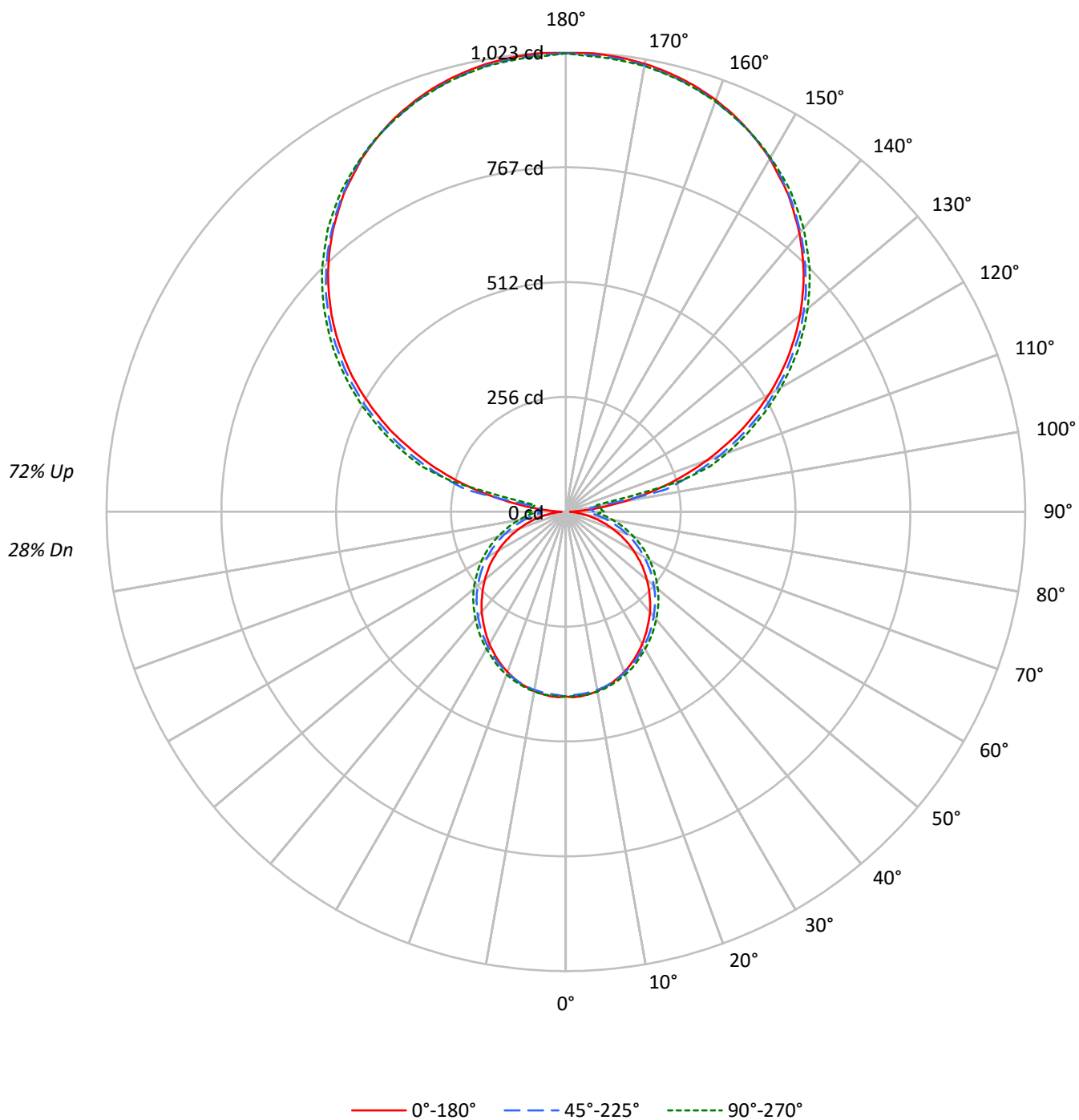
Lumens per Lamp: N/A
Luminaire Lumens: 4564.0 lumens
Efficiency: N/A
Efficacy: 133.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	92	88	84	80	82	79	75	72	62	59	57	46	44	43	31	30	29
2	84	76	70	65	75	68	63	59	54	50	47	40	37	35	27	26	24
3	76	67	60	54	68	60	54	49	47	43	39	35	32	30	24	22	20
4	70	59	51	45	62	53	46	41	42	37	33	31	28	25	21	19	17
5	64	52	44	38	57	47	40	35	37	32	28	28	24	22	19	17	15
6	59	47	39	33	52	42	35	30	33	28	24	25	21	19	17	15	13
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	16	13	12
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10
9	46	34	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9
10	43	31	24	20	39	28	22	18	23	18	15	17	14	12	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3356	3356	3356
5°	3365	3268	3274
10°	3343	3204	3194
15°	3312	3132	3105
20°	3265	3054	3018
25°	3213	2967	2925
30°	3157	2881	2829
35°	3093	2794	2744
40°	3041	2710	2656
45°	2966	2631	2577
50°	2901	2542	2495
55°	2833	2455	2400
60°	2729	2348	2311
65°	2617	2233	2205
70°	2479	2100	2080
75°	2285	1954	1962
80°	2065	1803	1838
85°	1776	1653	1738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 3164 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.0	0.9
10°-20°	111.7	2.4
20°-30°	168.9	3.7
30°-40°	204.4	4.5
40°-50°	216.0	4.7
50°-60°	203.3	4.5
60°-70°	168.7	3.7
70°-80°	118.4	2.6
80°-90°	68.9	1.5
90°-100°	73.6	1.6
100°-110°	252.6	5.5
110°-120°	445.9	9.8
120°-130°	552.1	12.1
130°-140°	583.5	12.8
140°-150°	542.1	11.9
150°-160°	436.4	9.6
160°-170°	281.4	6.2
170°-180°	97.0	2.1
0°-30°	319.6	7.0
0°-40°	524.0	11.5
0°-60°	943.3	20.7
0°-90°	1299.3	28.5
90°-120°	772.1	16.9
90°-150°	2449.9	53.7
90°-180°	3265.0	71.5
0°-180°	4564.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	412	412	412	412	412	
5°	412	411	407	411	411	39
15°	395	395	394	398	398	111
25°	361	364	365	370	371	166
35°	316	322	326	333	334	198
45°	264	272	281	289	291	204
55°	206	216	230	239	242	184
65°	143	158	173	185	188	142
75°	79	96	116	129	133	84
85°	24	44	64	78	83	25
90°	10	36	62	80	86	7
95°	48	37	57	74	79	57
105°	234	248	269	287	263	245
115°	432	438	452	464	467	425
125°	605	608	618	629	632	540
135°	749	748	755	764	768	577
145°	863	865	865	869	872	539
155°	946	947	944	948	945	436
165°	998	994	994	1000	993	282
175°	1021	1016	1017	1024	1015	97
180°	1021	1021	1021	1021	1021	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	411.5	411.5	411.5	411.5	411.5
2.5°	413.4	412.0	408.3	411.5	411.0
5°	412.0	410.6	407.4	411.0	410.6
7.5°	409.2	408.3	405.5	409.7	409.2
10°	405.5	405.1	402.8	406.9	406.4
12.5°	400.4	400.4	399.1	402.8	402.8
15°	394.9	395.4	394.0	398.1	397.7
17.5°	387.5	388.9	388.5	392.6	392.2
20°	379.7	381.1	381.6	386.2	386.2
22.5°	371.0	372.8	373.7	378.3	379.3
25°	361.3	364.0	365.4	370.5	371.0
27.5°	350.7	354.8	356.7	361.3	361.7
30°	340.1	343.8	347.0	352.1	353.0
32.5°	328.6	333.2	336.9	342.8	343.8
35°	316.1	321.6	326.3	332.7	334.1
37.5°	303.7	310.1	315.7	322.1	323.5
40°	291.7	297.7	304.1	311.1	312.9
42.5°	277.9	284.8	292.6	300.5	301.8
45°	263.6	272.3	281.1	288.9	291.2
47.5°	250.2	259.0	269.1	277.0	279.7
50°	235.5	245.6	255.8	265.0	267.7
52.5°	220.7	230.9	242.8	252.1	254.8
55°	206.4	216.1	229.9	239.2	241.9
57.5°	190.3	202.3	215.7	226.7	229.0
60°	174.6	186.6	201.8	212.4	216.1
62.5°	159.4	172.8	188.0	198.6	202.3
65°	142.9	157.6	173.3	184.8	188.5
67.5°	127.2	142.9	159.4	171.0	174.6
70°	111.1	126.7	144.2	156.7	159.9
72.5°	95.4	111.5	130.4	142.4	146.1
75°	79.3	96.3	115.7	128.6	132.7
77.5°	64.1	82.0	102.3	115.2	119.8
80°	50.2	68.7	88.9	102.8	106.4
82.5°	36.4	55.8	76.0	90.3	94.5
85°	24.4	43.8	64.5	78.3	82.9
87.5°	15.2	34.1	54.4	67.7	71.9
90°	9.7	36.5	62.4	80.4	85.6
92.5°	18.4	32.9	58.9	76.4	80.0
95°	48.0	37.2	56.9	73.9	78.8
97.5°	85.7	115.9	54.6	70.4	75.3
100°	130.3	156.1	68.6	68.1	72.1
102.5°	180.7	200.0	226.6	66.8	70.5
105°	233.9	247.8	268.6	287.0	263.2
107.5°	283.6	293.7	315.2	330.5	336.9
110°	333.6	342.2	363.0	375.1	381.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.9	392.1	408.8	418.2	424.9
115°	431.9	438.3	452.3	464.0	467.2
117.5°	477.0	482.7	498.9	507.7	511.4
120°	522.3	526.7	539.4	550.1	552.3
122.5°	565.0	566.6	580.5	590.5	592.2
125°	605.0	607.7	617.6	628.7	632.2
127.5°	643.9	644.3	657.3	664.9	667.3
130°	681.0	681.2	690.9	700.0	702.8
132.5°	715.3	716.3	725.0	733.6	735.6
135°	749.2	748.4	754.7	763.6	767.9
137.5°	779.7	779.3	784.9	793.4	794.9
140°	809.5	810.6	812.5	820.8	823.9
142.5°	835.8	838.9	839.1	845.8	847.6
145°	863.3	865.1	865.1	868.7	872.0
147.5°	884.7	888.8	888.0	889.3	891.8
150°	908.4	910.9	910.1	910.1	910.9
152.5°	927.7	930.0	928.5	930.0	929.2
155°	946.0	946.8	944.5	947.6	945.3
157.5°	962.1	962.1	959.0	962.8	959.0
160°	975.8	973.5	972.8	977.3	972.8
162.5°	988.0	985.0	984.2	988.8	983.4
165°	998.0	994.1	994.1	1000.2	993.4
167.5°	1006.3	1002.5	1001.8	1008.6	1001.0
170°	1013.2	1008.6	1009.4	1015.5	1007.9
172.5°	1017.8	1013.2	1014.0	1020.1	1011.7
175°	1020.9	1016.3	1017.0	1023.9	1014.7
177.5°	1023.1	1017.8	1019.3	1025.4	1016.3
180°	1020.9	1020.9	1020.9	1020.9	1020.9

(END OF REPORT)