

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: P1025538

Luminaire Tested: S124DIP-B575D1205UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025538
REPORT IS A COMBINATION OF REPORTS P996108 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D1205UB30-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

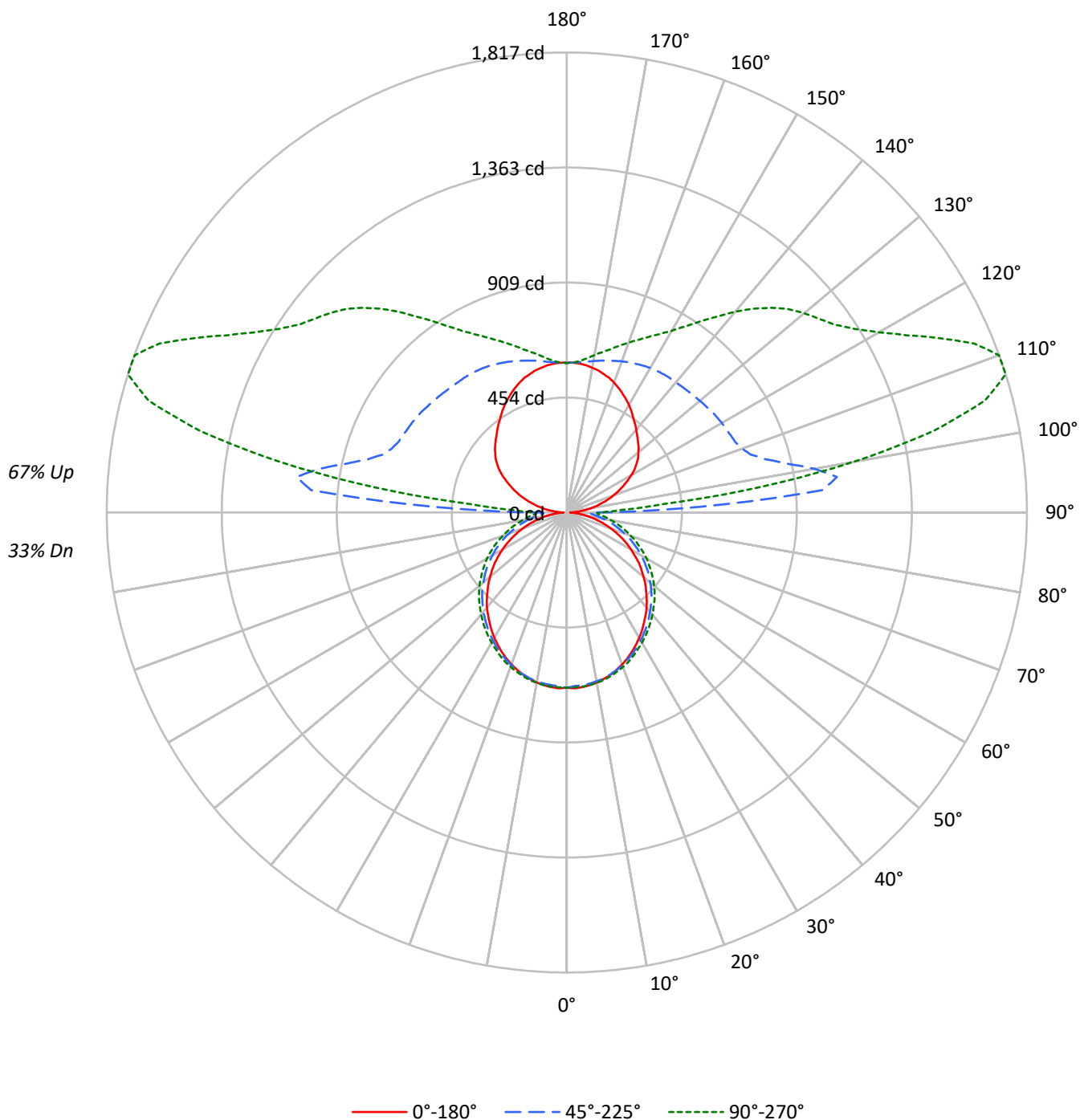
Lumens per Lamp: N/A
Luminaire Lumens: 6674.6 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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	50	30	10
RCR																				
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	33
1	93	89	85	81	84	80	77	73	64	61	59	48	47	45	34	34	33	33	33	26
2	85	77	71	66	76	69	64	60	55	51	48	42	40	37	30	28	27	27	27	21
3	77	67	60	54	69	61	55	49	48	44	40	37	34	31	26	24	23	23	23	18
4	70	59	52	46	63	54	47	42	43	38	34	33	29	26	23	21	19	19	19	15
5	64	53	45	39	58	48	41	35	38	33	29	29	26	23	21	19	17	17	17	13
6	59	47	39	33	53	43	36	31	34	29	25	26	23	20	19	16	14	14	14	11
7	54	42	34	29	49	38	31	27	31	26	22	24	20	17	17	15	13	13	13	10
8	50	38	31	25	45	35	28	23	28	23	19	22	18	15	16	13	11	11	11	9
9	47	35	27	22	42	32	25	21	26	21	17	20	16	14	14	12	10	10	10	8
10	44	32	25	20	39	29	23	18	23	19	15	18	15	12	13	11	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4986 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.0
10°-20°	187.8	2.8
20°-30°	284.0	4.3
30°-40°	343.6	5.1
40°-50°	363.2	5.4
50°-60°	341.9	5.1
60°-70°	283.7	4.3
70°-80°	199.1	3.0
80°-90°	114.5	1.7
90°-100°	505.9	7.6
100°-110°	942.4	14.1
110°-120°	829.1	12.4
120°-130°	687.3	10.3
130°-140°	566.0	8.5
140°-150°	427.7	6.4
150°-160°	299.5	4.5
160°-170°	176.2	2.6
170°-180°	57.3	0.9
0°-30°	537.4	8.1
0°-40°	881.0	13.2
0°-60°	1586.1	23.8
0°-90°	2183.4	32.7
90°-120°	2277.4	34.1
90°-150°	3958.3	59.3
90°-180°	4491.0	67.3
0°-180°	6674.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	14	53	98	122	130	11
95°	48	156	1014	557	379	50
105°	143	219	813	1711	1710	153
115°	244	312	716	1359	1628	242
125°	336	398	698	1147	1293	300
135°	398	473	677	1005	1143	307
145°	457	523	666	836	922	287
155°	519	560	648	734	765	239
165°	566	583	621	658	668	160
175°	590	591	596	604	602	56
180°	591	591	591	591	591	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	13.6	52.7	97.6	122.4	129.8
92.5°	27.9	128.1	527.3	244.2	205.7
95°	48.4	156.4	1013.8	556.8	378.6
97.5°	73.2	165.3	1076.0	1040.5	771.1
100°	96.7	179.6	992.5	1403.6	1150.0
102.5°	120.0	197.5	889.9	1628.9	1480.6
105°	142.9	219.4	812.8	1710.7	1710.5
107.5°	169.6	242.4	761.4	1680.6	1817.3
110°	195.5	264.9	736.3	1583.2	1815.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.2	288.2	721.9	1464.6	1742.6
115°	243.8	311.8	715.7	1358.6	1627.6
117.5°	269.3	334.4	710.6	1273.8	1515.8
120°	294.2	355.8	706.8	1215.2	1422.9
122.5°	317.4	377.2	701.8	1176.0	1348.5
125°	336.4	398.2	697.5	1147.1	1292.8
127.5°	354.9	419.2	691.3	1118.6	1256.4
130°	369.2	438.6	686.2	1086.3	1223.9
132.5°	384.3	456.1	682.0	1048.8	1188.7
135°	397.5	472.9	677.0	1005.2	1143.4
137.5°	411.4	486.8	673.9	959.5	1091.2
140°	426.5	500.1	670.3	915.0	1035.0
142.5°	442.0	512.3	668.8	874.2	975.4
145°	457.1	522.6	666.5	836.0	921.5
147.5°	474.6	533.0	663.0	803.8	871.3
150°	490.8	542.8	659.5	776.8	829.1
152.5°	505.1	552.2	653.7	754.8	794.2
155°	519.0	560.3	647.9	733.8	765.2
157.5°	533.0	567.8	642.1	714.1	738.5
160°	545.8	574.2	635.2	694.4	714.1
162.5°	557.4	579.4	628.2	675.2	690.9
165°	565.5	582.9	621.2	657.8	667.7
167.5°	574.8	585.8	614.3	642.8	649.1
170°	580.6	588.2	607.3	627.6	631.7
172.5°	586.4	589.8	600.3	614.2	614.3
175°	589.9	591.0	595.7	603.8	601.5
177.5°	592.2	591.0	592.2	596.2	592.2
180°	591.0	591.0	591.0	591.0	591.0

(END OF REPORT)