

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: P1001492

Luminaire Tested: SA4XXDIP-B575D1205UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001492
REPORT IS A COMBINATION OF REPORTS P996111 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D1205UB30-4F0-XX-W2A-F4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

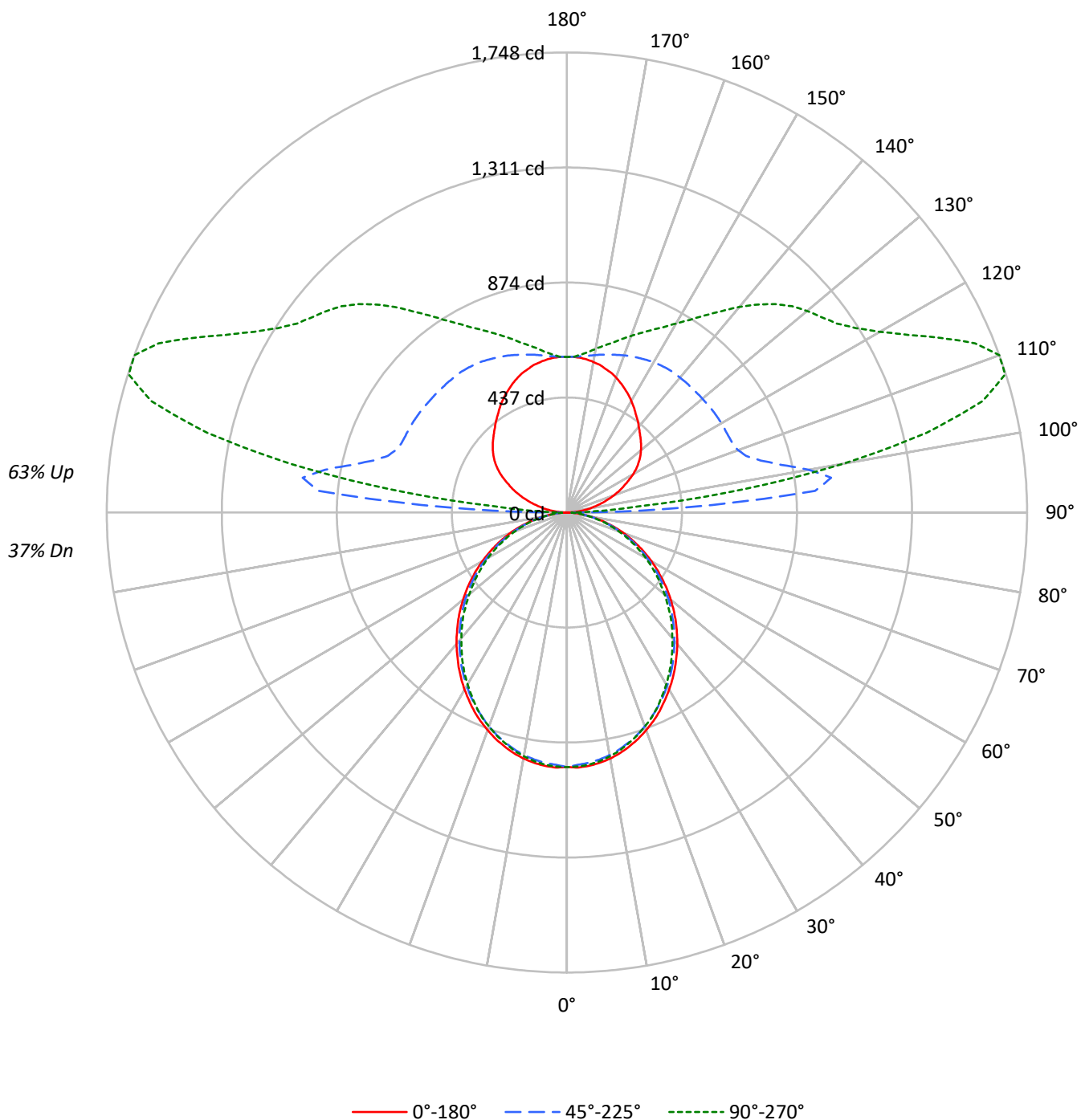
Lumens per Lamp: N/A
Luminaire Lumens: 6797.6 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	44	44	37
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	37	37	31
2	86	79	73	68	78	72	67	62	58	54	51	46	43	41	34	32	31	31	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	26	26	26	22
4	72	61	54	48	65	56	49	44	45	41	37	36	32	30	27	25	23	23	23	19
5	66	55	47	41	59	50	43	38	41	35	32	32	28	26	24	22	20	20	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	17	17	14
7	56	44	36	31	51	40	33	29	33	28	24	26	23	20	20	17	15	15	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	14	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	12	12	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	11	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7885	7885	7885
5°	7892	7659	7668
10°	7825	7446	7394
15°	7713	7193	7084
20°	7569	6920	6765
25°	7409	6631	6420
30°	7214	6318	6042
35°	7012	5999	5676
40°	6802	5655	5287
45°	6582	5309	4923
50°	6338	4974	4521
55°	6073	4585	4121
60°	5801	4156	3705
65°	5492	3714	3235
70°	5133	3182	2732
75°	4599	2565	2188
80°	3920	1854	1539
85°	3042	1033	828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6582 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	1.3
10°-20°	256.8	3.8
20°-30°	377.9	5.6
30°-40°	439.3	6.5
40°-50°	439.3	6.5
50°-60°	384.2	5.7
60°-70°	285.2	4.2
70°-80°	161.8	2.4
80°-90°	48.6	0.7
90°-100°	439.0	6.5
100°-110°	893.0	13.1
110°-120°	795.9	11.7
120°-130°	668.6	9.8
130°-140°	557.9	8.2
140°-150°	426.1	6.3
150°-160°	299.5	4.4
160°-170°	176.2	2.6
170°-180°	57.3	0.8
0°-30°	725.8	10.7
0°-40°	1165.1	17.1
0°-60°	1988.6	29.3
0°-90°	2484.3	36.5
90°-120°	2127.9	31.3
90°-150°	3780.4	55.6
90°-180°	4313.0	63.4
0°-180°	6797.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	966	963	955	963	962	92
15°	920	917	905	910	907	259
25°	833	828	817	818	814	383
35°	717	711	700	695	691	448
45°	585	580	567	559	556	451
55°	442	440	429	420	415	396
65°	300	296	288	280	277	297
75°	160	156	152	149	148	169
85°	42	42	40	40	40	45
90°	1	9	21	23	24	5
95°	38	121	946	469	283	42
105°	136	197	762	1640	1634	145
115°	239	300	679	1305	1569	237
125°	333	396	676	1111	1252	297
135°	396	471	670	986	1119	306
145°	456	523	666	831	914	286
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°	967.0	967.0	967.0	967.0	967.0
2.5°	970.1	967.8	959.3	967.0	966.2
5°	966.2	963.1	954.6	963.1	961.6
7.5°	959.3	956.2	946.9	953.8	953.1
10°	949.2	946.1	936.0	942.2	940.7
12.5°	936.0	932.9	922.1	929.0	926.7
15°	919.7	916.6	905.0	909.7	907.3
17.5°	901.1	897.3	886.4	889.5	888.0
20°	880.2	876.3	864.7	867.0	865.5
22.5°	857.7	852.3	840.7	845.4	842.3
25°	833.0	827.5	816.7	817.5	814.4
27.5°	805.1	799.6	789.6	788.0	784.1
30°	777.2	771.0	760.9	757.8	753.9
32.5°	747.7	742.3	731.5	727.6	723.7
35°	716.7	711.3	700.5	695.0	691.2
37.5°	684.2	679.5	667.9	662.5	657.1
40°	652.4	646.2	634.6	626.8	623.0
42.5°	618.3	615.2	602.1	592.8	590.4
45°	585.0	579.6	567.2	558.7	556.3
47.5°	550.1	546.3	534.6	525.3	519.1
50°	514.5	511.4	500.5	489.7	485.1
52.5°	479.6	475.8	464.1	454.8	448.6
55°	442.4	440.1	429.3	420.0	415.3
57.5°	407.6	405.2	394.4	385.1	380.4
60°	371.1	367.3	357.2	350.2	346.4
62.5°	335.5	332.4	321.6	315.4	311.5
65°	299.9	296.0	288.2	280.5	276.6
67.5°	263.4	260.3	252.6	244.8	244.1
70°	230.1	224.7	218.5	212.3	210.0
72.5°	194.5	189.1	184.4	179.8	177.4
75°	159.6	155.7	151.9	148.8	148.0
77.5°	125.5	124.0	120.1	119.3	117.0
80°	95.3	93.0	91.4	89.9	89.1
82.5°	65.9	65.1	65.1	64.3	63.5
85°	41.8	41.8	40.3	40.3	39.5
87.5°	20.1	19.4	18.6	18.6	18.6
90°	1.2	9.3	20.9	23.2	24.4
92.5°	16.3	89.4	455.2	150.4	105.7
95°	38.3	120.8	946.4	468.6	283.3
97.5°	63.9	133.5	1012.5	956.8	680.4
100°	88.2	151.0	933.6	1323.8	1064.8
102.5°	111.5	171.9	834.9	1553.6	1399.2
105°	135.9	196.8	761.7	1640.2	1633.8
107.5°	162.6	222.4	714.1	1614.0	1745.2
110°	189.3	247.9	692.1	1521.2	1747.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	214.8	273.5	681.6	1407.4	1679.1
115°	239.2	300.2	679.3	1305.2	1568.7
117.5°	264.7	325.2	678.1	1225.0	1460.8
120°	290.3	349.6	678.1	1171.0	1372.5
122.5°	313.5	373.3	677.0	1135.6	1302.8
125°	333.3	396.0	675.8	1110.6	1251.7
127.5°	351.8	416.8	673.5	1086.8	1219.2
130°	366.9	437.2	672.3	1058.4	1191.4
132.5°	382.0	454.6	671.2	1024.8	1160.0
135°	396.0	471.4	670.0	985.8	1119.4
137.5°	409.9	486.0	670.0	944.0	1071.8
140°	425.0	499.3	668.8	903.4	1019.5
142.5°	441.2	511.5	668.8	865.6	963.8
145°	456.3	522.6	666.5	831.4	913.8
147.5°	473.8	533.0	663.0	803.0	867.4
150°	490.0	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)