

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: P1001446

Luminaire Tested: SA4XXDIP-B575D1035UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001446
REPORT IS A COMBINATION OF REPORTS P996065 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D1035UB40-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

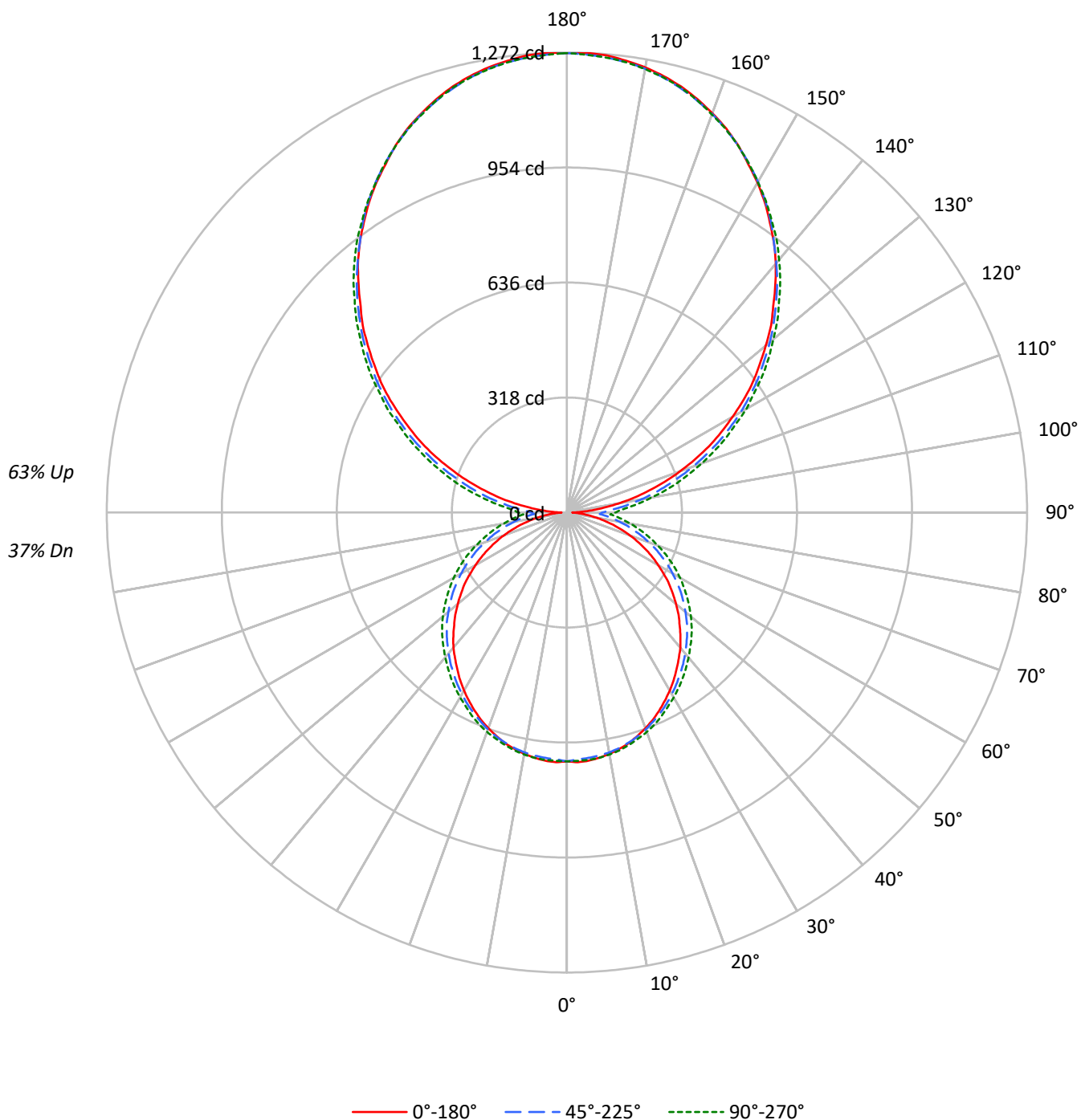
Lumens per Lamp: N/A
Luminaire Lumens: 5874.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	76	76	76	59	59	59	44	44	44
1	94	90	85	82	85	81	78	75	65	63	61	51	49	48	38	37	36
2	85	78	71	66	77	70	65	60	57	53	50	44	42	39	33	31	29
3	78	68	61	55	70	62	55	50	50	45	41	39	36	33	29	27	25
4	71	60	52	46	64	54	48	42	44	39	35	35	31	28	26	23	21
5	65	53	45	39	58	48	41	36	39	34	30	31	27	24	23	20	18
6	60	48	39	34	54	43	36	31	35	30	26	28	24	21	21	18	16
7	55	43	35	29	50	39	32	27	32	27	23	25	21	18	19	16	14
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	15	12
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	16	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	16	13	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5611	5611	5611
5°	5627	5465	5475
10°	5590	5358	5342
15°	5538	5236	5192
20°	5460	5105	5047
25°	5373	4961	4890
30°	5279	4818	4730
35°	5172	4672	4587
40°	5086	4532	4440
45°	4959	4400	4310
50°	4850	4251	4173
55°	4738	4106	4014
60°	4565	3927	3865
65°	4375	3733	3686
70°	4143	3512	3479
75°	3818	3266	3281
80°	3455	3016	3075
85°	2969	2765	2907

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4959 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	1.1
10°-20°	186.8	3.2
20°-30°	282.4	4.8
30°-40°	341.7	5.8
40°-50°	361.2	6.1
50°-60°	340.0	5.8
60°-70°	282.1	4.8
70°-80°	198.0	3.4
80°-90°	114.3	1.9
90°-100°	149.3	2.5
100°-110°	297.3	5.1
110°-120°	454.4	7.7
120°-130°	574.4	9.8
130°-140°	632.2	10.8
140°-150°	615.1	10.5
150°-160°	516.0	8.8
160°-170°	343.3	5.8
170°-180°	120.2	2.0
0°-30°	534.4	9.1
0°-40°	876.2	14.9
0°-60°	1577.4	26.9
0°-90°	2171.8	37.0
90°-120°	901.0	15.3
90°-150°	2722.7	46.4
90°-180°	3702.0	63.0
0°-180°	5874.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	689	687	681	687	687	65
15°	660	661	659	666	665	186
25°	604	609	611	620	620	278
35°	529	538	546	556	559	331
45°	441	455	470	483	487	341
55°	345	361	384	400	404	308
65°	239	264	290	309	315	237
75°	132	161	193	215	222	141
85°	41	73	108	131	139	43
90°	15	57	98	126	134	13
95°	69	103	142	165	172	72
105°	236	252	285	307	316	251
115°	433	440	463	479	483	427
125°	627	626	645	657	660	559
135°	806	812	818	828	830	624
145°	978	982	983	986	986	613
155°	1120	1120	1119	1123	1119	516
165°	1219	1216	1214	1220	1216	344
175°	1269	1264	1263	1270	1263	120
180°	1270	1270	1270	1270	1270	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	688.1	688.1	688.1	688.1	688.1
2.5°	691.2	688.9	682.7	688.1	687.3
5°	688.9	686.6	681.2	687.3	686.6
7.5°	684.2	682.7	678.1	685.0	684.2
10°	678.1	677.3	673.5	680.4	679.6
12.5°	669.6	669.6	667.3	673.5	673.5
15°	660.4	661.1	658.8	665.7	665.0
17.5°	648.0	650.3	649.6	656.5	655.7
20°	634.9	637.2	638.0	645.7	645.7
22.5°	620.3	623.4	624.9	632.6	634.2
25°	604.1	608.7	611.0	619.5	620.3
27.5°	586.4	593.3	596.4	604.1	604.9
30°	568.7	574.8	580.2	588.7	590.2
32.5°	549.4	557.1	563.3	573.3	574.8
35°	528.6	537.8	545.5	556.3	558.6
37.5°	507.8	518.6	527.8	538.6	540.9
40°	487.8	497.8	508.6	520.1	523.2
42.5°	464.6	476.2	489.3	502.4	504.7
45°	440.8	455.4	470.0	483.1	487.0
47.5°	418.4	433.0	450.0	463.1	467.7
50°	393.7	410.7	427.7	443.1	447.7
52.5°	369.1	386.0	406.1	421.5	426.1
55°	345.2	361.4	384.5	399.9	404.5
57.5°	318.2	338.3	360.6	379.1	383.0
60°	292.0	312.1	337.5	355.2	361.4
62.5°	266.6	289.0	314.4	332.1	338.3
65°	238.9	263.5	289.7	309.0	315.2
67.5°	212.7	238.9	266.6	285.9	292.0
70°	185.7	211.9	241.2	262.0	267.4
72.5°	159.5	186.5	218.1	238.1	244.3
75°	132.5	161.0	193.4	215.0	221.9
77.5°	107.1	137.2	171.1	192.6	200.3
80°	84.0	114.8	148.7	171.8	178.0
82.5°	60.9	93.2	127.1	151.0	158.0
85°	40.8	73.2	107.9	131.0	138.7
87.5°	25.4	57.0	90.9	113.3	120.2
90°	15.2	57.0	97.9	126.1	134.3
92.5°	37.1	76.8	114.9	139.4	146.6
95°	69.0	103.2	141.7	165.4	172.4
97.5°	103.5	133.8	173.3	197.2	204.2
100°	146.1	170.0	208.9	231.7	237.1
102.5°	191.3	209.2	246.3	269.3	276.4
105°	235.9	252.2	284.8	306.9	316.1
107.5°	284.0	298.1	326.1	349.3	353.7
110°	332.4	345.2	371.1	386.9	396.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.7	391.9	415.5	432.4	438.6
115°	433.0	440.0	462.7	478.7	483.1
117.5°	481.2	485.8	508.0	521.1	524.4
120°	528.6	534.9	554.2	564.7	572.9
122.5°	578.7	579.7	599.5	612.0	612.5
125°	627.1	626.3	644.6	657.2	659.9
127.5°	671.3	673.4	686.9	698.8	703.2
130°	717.7	719.8	732.2	744.0	744.8
132.5°	765.8	767.0	775.3	786.4	790.0
135°	806.3	812.2	817.6	828.0	829.7
137.5°	852.5	854.7	859.8	868.3	873.2
140°	898.6	899.9	900.6	909.7	912.5
142.5°	940.2	942.2	940.4	948.9	952.0
145°	978.5	981.6	982.6	986.2	986.4
147.5°	1017.8	1021.9	1021.0	1020.8	1022.9
150°	1053.2	1056.3	1056.3	1056.3	1055.3
152.5°	1085.8	1087.8	1088.8	1091.7	1088.8
155°	1120.2	1120.2	1119.2	1123.1	1119.2
157.5°	1149.7	1147.7	1147.7	1150.7	1147.7
160°	1175.2	1174.2	1173.3	1176.2	1171.3
162.5°	1198.8	1195.9	1194.9	1200.8	1195.9
165°	1219.4	1216.5	1214.5	1220.4	1216.5
167.5°	1236.1	1232.2	1232.2	1238.1	1232.2
170°	1249.9	1245.0	1246.0	1251.9	1245.0
172.5°	1259.7	1255.8	1255.8	1262.7	1255.8
175°	1268.6	1263.7	1262.7	1269.6	1262.7
177.5°	1272.5	1267.6	1267.6	1274.5	1266.6
180°	1270.5	1270.5	1270.5	1270.5	1270.5

(END OF REPORT)