

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: P1000082

Luminaire Tested: SA2XXRDIP-B865D1080UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000082
REPORT IS A COMBINATION OF REPORTS P988639 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B865D1080UB30-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

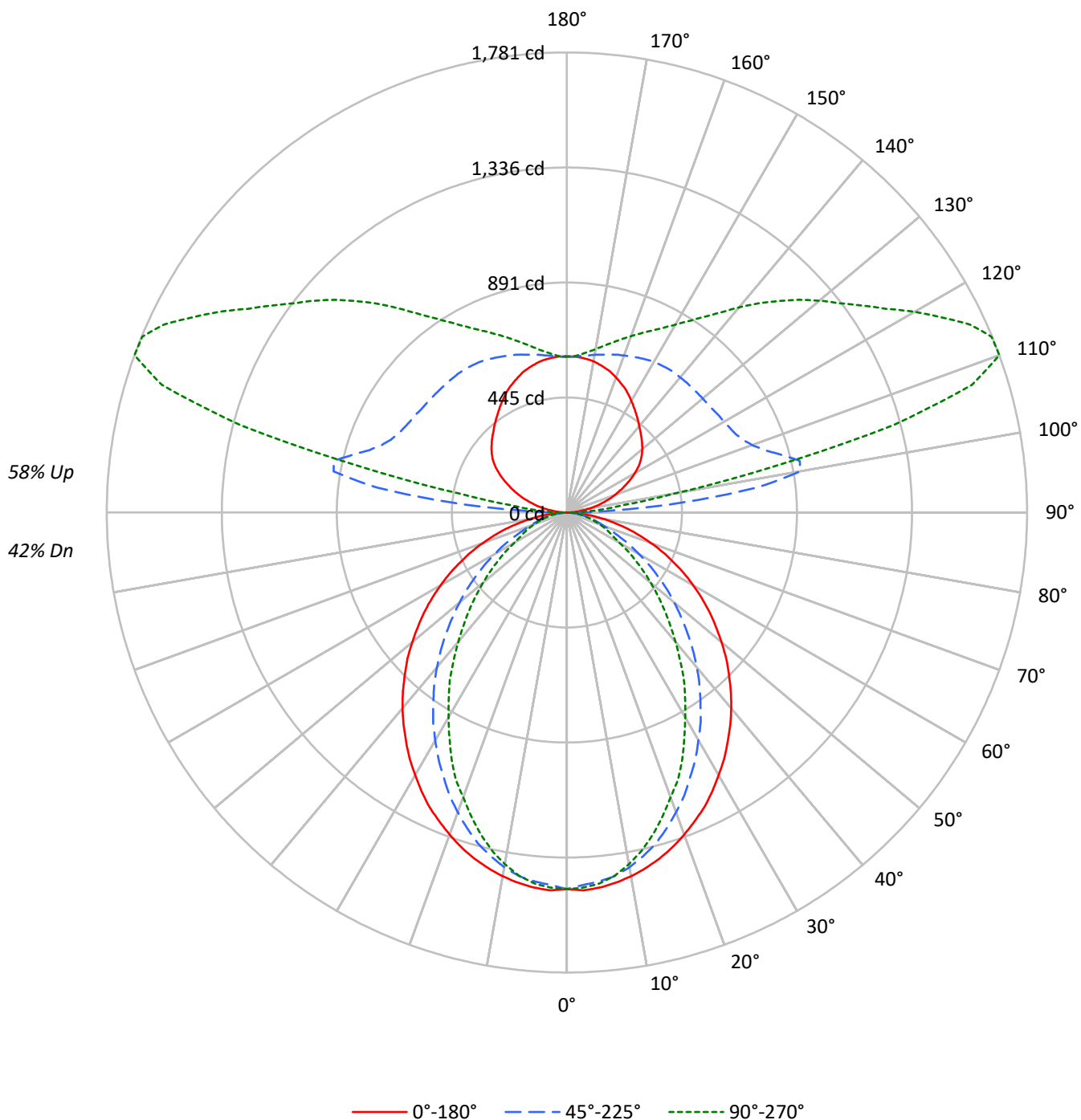
Lumens per Lamp: N/A
Luminaire Lumens: 7210.8 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 81.8
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	81	71	64	59	73	66	60	55	54	50	46	44	41	38	35	33	31
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	28	26	24
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23074	23074	23074
5°	23112	21953	21790
10°	22884	20821	20133
15°	22570	19484	18246
20°	22154	17965	16272
25°	21727	16405	14465
30°	21155	14887	12491
35°	20594	13356	10797
40°	20025	11853	9052
45°	19361	10300	7531
50°	18676	8803	6131
55°	17962	7306	4867
60°	17133	5843	3682
65°	16179	4454	2993
70°	15028	3231	2381
75°	13577	2464	1818
80°	11481	1668	1219
85°	8009	765	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	1.9
10°-20°	375.1	5.2
20°-30°	526.6	7.3
30°-40°	574.0	8.0
40°-50°	527.5	7.3
50°-60°	414.3	5.7
60°-70°	269.7	3.7
70°-80°	138.8	1.9
80°-90°	39.3	0.5
90°-100°	244.7	3.4
100°-110°	827.3	11.5
110°-120°	869.6	12.1
120°-130°	715.1	9.9
130°-140°	574.7	8.0
140°-150°	434.1	6.0
150°-160°	305.2	4.2
160°-170°	179.7	2.5
170°-180°	58.5	0.8
0°-30°	1038.2	14.4
0°-40°	1612.2	22.4
0°-60°	2554.0	35.4
0°-90°	3001.8	41.6
90°-120°	1941.7	26.9
90°-150°	3665.6	50.8
90°-180°	4209.0	58.4
0°-180°	7210.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1458	1451	1434	1446	1442	138
15°	1386	1372	1327	1302	1289	391
25°	1258	1216	1129	1075	1055	579
35°	1084	1017	901	818	789	679
45°	886	798	660	566	534	685
55°	674	571	429	350	324	602
65°	455	348	230	185	181	451
75°	243	150	106	96	95	257
85°	57	29	25	25	25	65
90°	1	16	40	38	38	6
95°	41	100	455	172	132	42
105°	142	214	860	1538	1308	150
115°	250	315	720	1485	1722	248
125°	348	412	692	1203	1397	310
135°	409	488	684	1011	1158	316
145°	467	536	680	845	924	293
155°	531	573	661	747	777	244
165°	578	596	633	671	682	163
175°	602	603	608	616	614	57
180°	604	604	604	604	604	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1464.3	1457.7	1443.2	1456.4	1453.8
5°	1457.7	1451.1	1434.0	1445.9	1441.9
7.5°	1445.9	1437.9	1419.5	1424.7	1418.1
10°	1430.0	1420.8	1394.4	1390.4	1382.5
12.5°	1410.2	1398.4	1362.7	1354.8	1340.3
15°	1386.5	1372.0	1327.1	1302.1	1288.9
17.5°	1358.8	1337.7	1282.3	1253.2	1232.1
20°	1327.1	1300.7	1234.8	1201.8	1172.8
22.5°	1292.8	1262.5	1186.0	1141.1	1121.3
25°	1258.5	1216.3	1129.2	1075.2	1055.4
27.5°	1217.6	1172.8	1076.5	1014.5	984.1
30°	1174.1	1124.0	1018.4	951.1	915.5
32.5°	1131.9	1071.2	963.0	883.9	850.9
35°	1084.4	1017.1	901.0	817.9	788.9
37.5°	1038.2	965.7	843.0	751.9	719.0
40°	989.4	910.3	782.3	688.6	654.3
42.5°	939.3	854.8	721.6	624.0	591.0
45°	886.5	798.1	659.6	565.9	534.3
47.5°	836.4	742.7	600.2	506.6	477.6
50°	781.0	687.3	542.2	451.2	423.5
52.5°	726.9	627.9	486.8	399.7	374.7
55°	674.1	571.2	428.7	349.6	324.5
57.5°	620.0	514.5	377.3	303.4	282.3
60°	564.6	459.1	323.2	255.9	234.8
62.5°	510.5	405.0	277.0	213.7	203.2
65°	455.1	348.3	229.5	184.7	180.7
67.5°	402.4	295.5	184.7	162.3	158.3
70°	347.0	244.1	153.0	139.8	134.6
72.5°	294.2	196.6	128.0	117.4	114.8
75°	242.7	150.4	105.5	96.3	95.0
77.5°	191.3	106.9	83.1	77.8	75.2
80°	143.8	76.5	63.3	58.0	58.0
82.5°	100.3	51.4	43.5	40.9	40.9
85°	56.7	29.0	25.1	25.1	25.1
87.5°	21.1	10.6	10.6	9.2	9.2
90°	1.2	15.6	39.5	37.8	38.3
92.5°	17.4	55.2	178.8	82.4	70.8
95°	40.6	99.8	455.1	171.8	132.3
97.5°	60.4	131.8	741.8	344.8	221.7
100°	89.4	161.4	917.1	686.7	415.6
102.5°	116.1	188.0	923.0	1161.0	810.3
105°	141.6	213.6	860.3	1537.6	1308.4
107.5°	169.5	239.2	802.2	1674.1	1643.9
110°	197.4	265.2	762.7	1652.0	1780.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	222.9	290.2	737.2	1577.1	1778.6
115°	249.6	315.2	719.8	1485.4	1721.7
117.5°	277.5	340.2	710.5	1397.8	1635.8
120°	303.0	364.6	702.4	1319.4	1553.3
122.5°	327.4	389.5	697.7	1258.4	1467.4
125°	348.3	412.2	691.9	1203.4	1396.6
127.5°	365.7	433.6	688.4	1156.3	1330.4
130°	380.8	452.8	686.1	1108.7	1275.9
132.5°	394.7	471.4	685.0	1059.4	1219.0
135°	408.7	487.6	683.8	1011.2	1157.5
137.5°	421.4	501.5	683.8	962.4	1098.3
140°	436.5	514.3	682.6	919.4	1036.7
142.5°	451.6	524.8	682.6	878.2	975.2
145°	466.7	536.4	680.3	844.6	924.1
147.5°	483.0	545.6	676.8	815.0	878.8
150°	499.2	555.0	673.3	789.4	839.4
152.5°	515.5	564.2	667.5	768.0	805.7
155°	530.6	572.9	660.6	747.1	776.7
157.5°	543.3	579.8	653.6	727.4	751.1
160°	556.1	586.8	646.6	707.6	726.8
162.5°	568.9	592.0	640.8	689.0	703.5
165°	578.2	595.6	632.7	671.0	681.5
167.5°	586.3	599.0	625.7	654.8	660.6
170°	594.4	600.8	619.9	639.6	642.0
172.5°	599.0	602.6	613.0	626.3	626.9
175°	602.5	603.1	608.3	615.9	614.1
177.5°	604.9	603.7	603.7	608.3	604.9
180°	603.7	603.7	603.7	603.7	603.7

(END OF REPORT)